

**Safety Data Sheet**  
Regulation(EC) No.1907/2006, 1272/2008

22648-1009

Printing date 16.06.2021

Revision 16.06.2021

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** *Color lead (Red) for Zensations MP*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** *Drawing*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
This phone number is available only during office hours:  
9am to 5:30pm (Japan time)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*
- **Information concerning particular hazards for human and environment:**  
*The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.*
- **Classification system:**  
*The classification is according to the EU Regulation 1272/2008/EC, and extended by company and literature data.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Not applicable.*
- **Hazard pictograms** *Not applicable.*
- **Signal word** *Not applicable.*
- **Hazard-determining components of labelling:** *Not applicable.*
- **Hazard statements** *Not applicable.*
- **Precautionary statements** *Not applicable.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· **Composition:**

CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	33,3%
CAS: 1319-41-1 EINECS: 215-289-0	Saponite	32,0%
CAS: 9004-32-4	carboxymethyl cellulose, sodium salt	9,0%

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Trade name:

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CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	8,0%
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes,microcryst.	7,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	5,2%
CAS: 5281-04-9 EINECS: 226-109-5	calcium 3-hydroxy-4-[(4-methyl-2-sulphonatophenyl)azo]-2-naphthoate	3,5%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate, pure substance with a Community workplace exposure limit	2,0%

· **Remark :** All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

#### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Seek medical treatment.  
Never give anything by mouth to an unconscious person.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

#### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

#### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.

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Trade name:

Dispose contaminated material as waste according to item 13.

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**6.4 Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with eyes and skin.  
For the general occupational hygienic measures refer to Section 8.  
**Information about fire - and explosion protection:** Normal measures for preventive fire protection.

**7.2 Conditions for safe storage, including any incompatibilities****Requirements to be met by storerooms and receptacles:**

Store in a cool location.  
Store only in the original receptacle.  
**Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.

**Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:**

<b>1332-58-7 Kaolin (8,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (5,2%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II);*alveolengängig**einatembar: AGS, DFG
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
<b>557-05-1 zinc distearate, pure (2,0%)</b>	
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
VME (France)	Long-term value: 10 mg/m <sup>3</sup>

• **DNELs:** Not applicable.• **PNECs:** Not applicable.• **Additional information:** The lists valid during the making were used as basis.**8.2 Exposure controls**• **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**• **Appropriate engineering controls** See Section 7 for information about design of technical facilities.**Personal protective equipment**• **Respiratory protection:** Suitable respiratory protective device recommended.

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Trade name:

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· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

· **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

· <b>Form:</b>	Solid
· <b>Colour:</b>	Red
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Data not available.

· **pH-value:** Data not available.

· **Change in condition:**

· <b>Melting point/Melting range:</b>	Data not available.
· <b>Freezing point:</b>	Data not available.
· <b>Boiling point/Boiling range:</b>	Data not available.

· **Flash point:** Data not available.

· **Flammability (solid, gaseous):** Data not available.

· **Auto-ignition temperature:** Data not available.

· **Decomposition temperature:** Data not available.

· **Self-igniting:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits**

· **Lower:** Data not available.

· **Upper:** Data not available.

· **Oxidizing properties:** Data not available.

· **Vapour pressure:** Data not available.

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Trade name:

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· <b>Density:</b>	Data not available.
· <b>Relative density:</b>	Data not available.
· <b>Vapour density:</b>	Data not available.
· <b>Evaporation rate:</b>	Data not available.

· <b>Solubility in / Miscibility with water:</b>	Data not available.
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· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
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· <b>Viscosity:</b>	
<b>Dynamic:</b>	Data not available.
<b>Kinematic:</b>	Data not available.

· <b>9.2 Other information</b>	No further relevant information available.
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### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:**

**13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**63231-60-7 Paraffin waxes and Hydrocarbon waxes, microcryst.**

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3600 mg/kg (rabbit)

**9004-32-4 carboxymethyl cellulose, sodium salt**

Oral	LD50	27000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-04-0 magnesium distearate, pure**

Oral	LD50	>2000 mg/kg (rat)
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**557-05-1 zinc distearate, pure**

Oral	LD50	>10000 mg/kg (mouse)
		>10000 mg/kg (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Based on available data, the classification criteria are not met.

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Trade name:

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- **Reproductive toxicity**  
Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |                 |
|---|-----------------|
| · <b>14.1 UN-Number</b>   | Not applicable. |
| · <b>ADR,RID,ADN, IMDG, IATA</b>  | Not applicable. |
| · <b>14.2 UN proper shipping name</b>   | Not applicable. |
| · <b>ADR,RID,ADN, IMDG, IATA</b>  | Not applicable. |
| · <b>14.3 Transport hazard class(es)</b>  | Not applicable. |
| · <b>ADR,RID,ADN, IMDG, IATA</b>  | Not applicable. |
| · <b>Class</b>  | Not applicable. |
| · <b>14.4 Packing group</b>   | Not applicable. |
| · <b>ADR,RID,ADN, IMDG, IATA</b>  | Not applicable. |
| · <b>14.5 Environmental hazards</b>   | No              |
| · <b>Marine pollutant:</b>  | No              |
| · <b>14.6 Special precautions for user</b>  | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |

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Trade name:

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UN "Model Regulation":

**SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

MAK(German Maximum Workplace Concentration)

13463-67-7 titanium dioxide

3A

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations

SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

REACH Regulation Annex XVII Restriction

See Section 16 for information about restriction of use.

None of the ingredients is listed.

REACH Regulation Annex XIV Authorisation List

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY :**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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End of document

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**Safety data sheet**  
Regulation(EC) No. 1907/2006, 1272/2008

Printing date 11.10.2020

Revision 10.10.2020

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** Color lead (Ruby Red) for Zensations MP
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Drawing
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
This phone number is available only during office hours:  
9am to 5:30pm (Japan time)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **Information concerning particular hazards for human and environment:**  
The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.
- **Classification system:**  
The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable
- **Hazard-determining components of labelling:** Not applicable
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· <b>Composition:</b>		
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	45,7%
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	26,0%
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes, microcryst.	7,0%

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Trade name:

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CAS: 9004-32-4	Carboxymethylcellulose Sodium	6,0%
CAS: 6410-26-0 EINECS: 229-096-4	4-[(2-chlorophenyl)azo]-3-hydroxy-N-phenylnaphthalene-2-carboxamide	5,0%
CAS: 5281-04-9 EINECS: 226-109-5	calcium 3-hydroxy-4-[(4-methyl-2-sulphonatophenyl)azo]-2-naphthoate	4,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	3,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate substance with a Community workplace exposure limit	3,0%
CAS: 1333-86-4 EINECS: 215-609-9	Carbon black substance with a Community workplace exposure limit	0,3%

**Remark:**

All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

calcium 3-hydroxy-4-[(4-methyl-2-sulphonatophenyl)azo]-2-naphthoate (CAS No.5281-04-9)  
Synonym: C.I. Pigment Red 57:1

**SECTION 4: First aid measures****- 4.1 Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:**

Wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**

Rinse out mouth with water.

Never give anything by mouth to an unconscious person.

Seek medical treatment.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****- 5.1 Extinguishing media**

- **Suitable extinguishing agents:**

CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

**- 5.3 Advice for firefighters**

- **Protective equipment:**

Wear fully protective suit.

Mouth respiratory protective device.

**SECTION 6: Accidental release measures****- 6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes.

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Trade name:

Avoid contact with skin.

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· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Avoid contact with skin and eyes.

For the general occupational hygienic measures refer to section 8.

· **Information about fire - and explosion protection:** Normal measures for preventive fire protection.

· **7.2 Conditions for safe storage, including any incompatibilities:**

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**1332-58-7 Kaolin (45,7%)**

WEL (Great Britain) Long-term value: 2 mg/m<sup>3</sup>

**13463-67-7 titanium dioxide (3,0%)**

AGW (Germany) Long-term value: 1,25\* 10\*\* mg/m<sup>3</sup>

2(II);\*alveolengängig\*\*einatembar; AGS, DFG

VME (France) Long-term value: 10 mg/m<sup>3</sup>

WEL (Great Britain) Long-term value: 10\* 4\*\* mg/m<sup>3</sup>

\*total inhalable \*\*respirable

**557-05-1 zinc distearate (3,0%)**

VME (France) Long-term value: 10 mg/m<sup>3</sup>

WEL (Great Britain) Short-term value: 20\* mg/m<sup>3</sup>

Long-term value: 10\* 4\*\* mg/m<sup>3</sup>

\*inhalable dust \*\*respirable dust

**1333-86-4 Carbon black (0,3%)**

VME (France) Long-term value: 3,5 mg/m<sup>3</sup>

WEL (Great Britain) Short-term value: 7 mg/m<sup>3</sup>

Long-term value: 3,5 mg/m<sup>3</sup>

· **DNELs:** Data not available

· **PNECs:** Data not available

· **Additional information:** The lists valid during the making were used as basis.

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Trade name:

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- **8.2 Exposure controls**
- **Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**
- **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.
- **Personal protective equipment:**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**  
Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

· <b>Appearance:</b>	
Form:	Solid
Colour:	Brick Red
Odour:	Odourless
Odour threshold:	Data not available.
pH-value:	Data not available
· <b>Change in condition</b>	
Melting point/Melting range:	Data not available.
Boiling point/Boiling range:	Data not available
Freezing point:	Data not available
Flash point:	Data not available
Flammability (solid, gaseous):	Date not available.
Auto-Ignition temperature:	Data not available
Decomposition temperature:	Date not available.
Self-igniting:	Product is not selfigniting.

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Trade name:

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- <b>Explosive properties:</b>	Product does not present an explosion hazard.
- <b>Explosion limits:</b>	
<b>Lower:</b>	Data not available.
<b>Upper:</b>	Data not available.
- <b>Oxidising properties</b>	Data not available
- <b>Vapour pressure:</b>	Data not available.
- <b>Density:</b>	Data not available.
- <b>Relative density</b>	Data not available.
- <b>Vapour density</b>	Data not available.
- <b>Evaporation rate</b>	Data not available
- <b>Solubility in / Miscibility with water:</b>	Data not available
- <b>Partition coefficient (n-octanol/water):</b>	Data not available.
- <b>Viscosity:</b>	
<b>Dynamic:</b>	Data not available
<b>Kinematic:</b>	Data not available
- <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specification.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:****13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**9004-32-4 Carboxymethylcellulose Sodium**

Oral	LD50	> 27000 mg/kg (mouse) 27000 mg/kg (rat) > 27000 mg/kg (rabbit)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-05-1 zinc distearate**

Oral	LD50	> 10000 mg/kg (mouse) > 10000 mg/kg (rat)
------	------	--

(Contd. on page 6)

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**Safety data sheet**  
Regulation(EC) No. 1907/2006, 1272/2008

Printing date 11.10.2020

Revision 10.10.2020

Trade name:

**1333-86-4 Carbon black**

(Contd. of page 5)

Oral	LD50	15400 mg/kg (rat)
Dermal	LD50	3000 mg/kg (rabbit)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |  |                |
|--|----------------|
| - <b>14.1 UN-Number</b>                  |                |
| - <b>ADR,RID,ADN, IMDG, IATA</b>         | Not applicable |
| - <b>14.2 UN proper shipping name</b>    |                |
| - <b>ADR,RID,ADN, IMDG, IATA</b>         | Not applicable |
| - <b>14.3 Transport hazard class(es)</b> |                |
| - <b>ADR,RID,ADN, IMDG, IATA</b>         |                |
| - <b>Class</b>                           | Not applicable |
| - <b>14.4 Packing group</b>              |                |
| - <b>ADR,RID,ADN, IMDG, IATA</b>         | Not applicable |

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Trade name:

(Contd. of page 6)

- |   |  |
|---|--|
| · 14.5 Environmental hazards  | Not applicable.                                      |
| · 14.6 Special precautions for user                                       | Not applicable.                                      |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable.                                      |
| · 14.8 Transport/Additional information:                                  | Not dangerous according to the above specifications. |
| · UN "Model Regulation":  | -  |

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- MAK (German Maximum Workplace Concentration)

13463-67-7	titanium dioxide	3A
1333-86-4	Carbon black	3B

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations

- SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

- REACH Regulation Annex XVII Restriction  
See Section 16 for information about restriction of use.

None of the ingredients is listed.

- REACH Regulation Annex XIV Authorization List

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

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**Regulation(EC) No. 1907/2006, 1272/2008**

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Trade name:

(Contd. of page 7)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

\*\*\*\*\*

End of document

— EU —

**Safety data sheet**  
Regulation(EC) No. 1907/2006, 1272/2008

Printing date 11.10.2020

Revision 10.10.2020

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** *Color lead (Sap Green) for Zensations MP*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** *Drawing*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
*This phone number is available only during office hours:  
9am to 5:30pm (Japan time)*

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*
- **Information concerning particular hazards for human and environment:**  
*The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.*
- **Classification system:**  
*The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Not applicable*
- **Hazard pictograms** *Not applicable*
- **Signal word** *Not applicable*
- **Hazard-determining components of labelling:** *Not applicable*
- **Hazard statements** *Not applicable*
- **Precautionary statements** *Not applicable*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable*
- **vPvB:** *Not applicable*

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· **Composition:**

CAS: 1332-58-7 EC number: 310-194-1	<i>Kaolin substance with a Community workplace exposure limit</i>	48,0%
CAS: 557-04-0 EINECS: 209-150-3	<i>magnesium distearate, pure</i>	31,88%
CAS: 63231-60-7 EINECS: 264-038-1	<i>Paraffin waxes and Hydrocarbon waxes, microcryst.</i>	7,0%

(Contd. on page 2)

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Trade name:

		(Contd. of page 1)
CAS: 9004-32-4	Carboxymethylcellulose Sodium	6,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	3,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate substance with a Community workplace exposure limit	3,0%
CAS: 1328-53-6 EINECS: 215-524-7	polychloro copper phthalocyanine	0,8%
CAS: 2512-29-0 EINECS: 219-730-8	2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide	0,2%
CAS: 1333-86-4 EINECS: 215-609-9	Carbon black substance with a Community workplace exposure limit	0,12%

**Remark:**

All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

polychloro copper phthalocyanine (CAS No.1328-53-6)  
Synonym: Pigment Green 7

2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide (CAS No.2512-29-0)  
Synonym: Pigment Yellow 1

**SECTION 4: First aid measures****- 4.1 Description of first aid measures**

**- After inhalation:** Supply fresh air; consult doctor in case of complaints.

**- After skin contact:**

Wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**- After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**- After swallowing:**

Rinse out mouth with water.

Never give anything by mouth to an unconscious person.

Seek medical treatment.

**- 4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

**- 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****- 5.1 Extinguishing media****- Suitable extinguishing agents:**

CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**- 5.2 Special hazards arising from the substance or mixture** No further relevant information available.

**- 5.3 Advice for firefighters****- Protective equipment:**

Wear fully protective suit.

Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

**- 6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

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Trade name:

(Contd. of page 2)

- Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
  - **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
  - **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with skin and eyes.  
For the general occupational hygienic measures refer to section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities:**  
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.  
· **Information about storage in one common storage facility:** Store away from foodstuffs.  
· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

<b>1332-58-7 Kaolin (48,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (3,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II);*alveolengängig**einatembar; AGS, DFG
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
<b>557-05-1 zinc distearate (3,0%)</b>	
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
<b>1333-86-4 Carbon black (0,12%)</b>	
VME (France)	Long-term value: 3,5 mg/m <sup>3</sup>
WEL (Great Britain)	Short-term value: 7 mg/m <sup>3</sup> Long-term value: 3,5 mg/m <sup>3</sup>

- **DNELs:** Data not available
- **PNECs:** Data not available

(Contd. on page 4)  
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Printing date 11.10.2020

Revision 10.10.2020

Trade name:

(Contd. of page 3)

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**
- **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.
- **Personal protective equipment:**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **Appearance:**

**Form:** Solid  
**Colour:** Jungle Green

- **Odour:** Odourless

- **Odour threshold:** Data not available.

- **pH-value:** Data not available

- **Change in condition**

**Melting point/Melting range:** Data not available.

**Boiling point/Boiling range:** Data not available

- **Freezing point:** Data not available

- **Flash point:** Data not available

- **Flammability (solid, gaseous):** Data not available.

- **Auto-Ignition temperature:** Data not available

- **Decomposition temperature:** Data not available.

(Contd. on page 5)

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Trade name:

(Contd. of page 4)

· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
Lower:	Data not available.
Upper:	Data not available.
· <b>Oxidising properties</b>	Data not available
· <b>Vapour pressure:</b>	Date not available.
· <b>Density:</b>	Data not available.
· <b>Relative density</b>	Data not available.
· <b>Vapour density</b>	Date not available.
· <b>Evaporation rate</b>	Data not available
· <b>Solubility in / Miscibility with water:</b>	Data not available
· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
· <b>Viscosity:</b>	
Dynamic:	Data not available
Kinematic:	Data not available
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specification.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:****13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**9004-32-4 Carboxymethylcellulose Sodium**

Oral	LD50	> 27000 mg/kg (mouse) 27000 mg/kg (rat) > 27000 mg/kg (rabbit)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-05-1 zinc distearate**

Oral	LD50	> 10000 mg/kg (mouse) > 10000 mg/kg (rat)
------	------	--

(Contd. on page 6)

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**Safety data sheet**  
Regulation(EC) No. 1907/2006, 1272/2008

Printing date 11.10.2020

Revision 10.10.2020

Trade name:

(Contd. of page 5)

**1333-86-4 Carbon black**

Oral	LD50	15400 mg/kg (rat)
Dermal	LD50	3000 mg/kg (rabbit)

**2512-29-0 2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide**

Oral	LD50	>10000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |                                       |                |
|---------------------------------------|----------------|
| · <b>14.1 UN-Number</b>               |                |
| · <b>ADR,RID,ADN, IMDG, IATA</b>      | Not applicable |
| · <b>14.2 UN proper shipping name</b> |                |
| · <b>ADR,RID,ADN, IMDG, IATA</b>      | Not applicable |

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**Safety data sheet**  
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Printing date 11.10.2020

Revision 10.10.2020

Trade name:

(Contd. of page 6)

- |   |  |
|---|--|
| · 14.3 Transport hazard class(es)   |  |
| · ADR,RID,ADN, IMDG, IATA   |  |
| · Class   | Not applicable                                       |
| · 14.4 Packing group  |  |
| · ADR,RID,ADN, IMDG, IATA   | Not applicable                                       |
| · 14.5 Environmental hazards  | Not applicable.                                      |
| · 14.6 Special precautions for user                                       | Not applicable.                                      |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable.                                      |
| · 14.8 Transport/Additional information:                                  | Not dangerous according to the above specifications. |
| · UN "Model Regulation":  | -  |

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- MAK (German Maximum Workplace Concentration)

13463-67-7	titanium dioxide	3A
1333-86-4	Carbon black	3B

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations

- SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

- REACH Regulation Annex XVII Restriction  
See Section 16 for information about restriction of use.

None of the ingredients is listed.

- REACH Regulation Annex XIV Authorization List

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

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(Contd. on page 8)

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**Safety data sheet**  
**Regulation(EC) No. 1907/2006, 1272/2008**

Printing date 11.10.2020

Revision 10.10.2020

Trade name:

(Contd. of page 7)

**Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*DNEL: Derived No-Effect Level (REACH)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

\*\*\*\*\*

End of document

EU

**Safety Data Sheet**  
Regulation(EC) No.1907/2006, 1272/2008

Printing date 16.06.2021

Revision 16.06.2021

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** *Color lead (Sky Blue) for Zensations MP*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** *Drawing*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
*This phone number is available only during office hours:  
9am to 5:30pm (Japan time)*

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*
- **Information concerning particular hazards for human and environment:**  
*The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.*
- **Classification system:**  
*The classification is according to the EU Regulation 1272/2008/EC, and extended by company and literature data.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Not applicable.*
- **Hazard pictograms** *Not applicable.*
- **Signal word** *Not applicable.*
- **Hazard-determining components of labelling:** *Not applicable.*
- **Hazard statements** *Not applicable.*
- **Precautionary statements** *Not applicable.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

- <b>Composition:</b>		
CAS: 1319-41-1 EINECS: 215-289-0	Saponite	32,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate, pure substance with a Community workplace exposure limit	25,0%
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	10,0%

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Trade name:

		(Contd. of page 1)
CAS: 9004-32-4	carboxymethyl cellulose, sodium salt	10,0%
CAS: 147-14-8 EINECS: 205-685-1	29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper	9,5%
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes,microcryst.	6,0%
CAS: 9000-01-5 EINECS: 232-519-5	gum arabic	5,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	2,5%

· **Remark :** All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Seek medical treatment.  
Never give anything by mouth to an unconscious person.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.

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- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with eyes and skin.  
For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

<b>557-05-1 zinc distearate, pure (25,0%)</b>	
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
<b>1332-58-7 Kaolin (10,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (2,5%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig **eintembar; AGS, DFG
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
VME (France)	Long-term value: 10 mg/m <sup>3</sup>

- **DNELs:** Not applicable.
- **PNECs:** Not applicable.

· **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**
- **Appropriate engineering controls** See Section 7 for information about design of technical facilities.
- **Personal protective equipment**
- **Respiratory protection:** Suitable respiratory protective device recommended.

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## - Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

## - Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

## - Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

## - Eye protection:



Tightly sealed goggles

## - Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

## - 9.1 Information on basic physical and chemical properties

## - General Information

## - Appearance:

Form: Solid

Colour: Blue

- Odour: Odourless

- Odour threshold: Data not available.

- pH-value: Data not available.

## - Change in condition:

Melting point/Melting range: Data not available.

- Freezing point: Data not available.

- Boiling point/Boiling range: Data not available.

- Flash point: Data not available.

- Flammability (solid, gaseous): Data not available.

- Auto-ignition temperature: Data not available.

- Decomposition temperature: Data not available.

- Self-igniting: Product is not selfigniting.

- Explosive properties: Product does not present an explosion hazard.

## - Explosion limits

Lower: Data not available.

Upper: Data not available.

- Oxidizing properties: Data not available.

- Vapour pressure: Data not available.

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· <b>Density:</b>	Data not available.
· <b>Relative density:</b>	Data not available.
· <b>Vapour density:</b>	Data not available.
· <b>Evaporation rate:</b>	Data not available.
· <b>Solubility in / Miscibility with water:</b>	Data not available.
· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Data not available.
· <b>Kinematic:</b>	Data not available.
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:****13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**63231-60-7 Paraffin waxes and Hydrocarbon waxes, microcryst.**

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3600 mg/kg (rabbit)

**9000-01-5 gum arabic**

Oral	LD50	>16000 mg/kg (mouse)
		>16000 mg/kg (rat)
		>8000 mg/kg (rabbit)

**9004-32-4 carboxymethyl cellulose, sodium salt**

Oral	LD50	27000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-05-1 zinc distearate, pure**

Oral	LD50	>10000 mg/kg (mouse)
		>10000 mg/kg (rat)

**147-14-8 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper**

Oral	LD50	>2000 mg/kg (rat)
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Trade name:

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- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b>                  |                 |
| · <b>ADR,RID,ADN, IMDG, IATA</b>         | Not applicable. |
| · <b>14.2 UN proper shipping name</b>    |                 |
| · <b>ADR,RID,ADN, IMDG, IATA</b>         | Not applicable. |
| · <b>14.3 Transport hazard class(es)</b> |                 |
| · <b>ADR,RID,ADN, IMDG, IATA</b>         |                 |
| · <b>Class</b>                           | Not applicable. |
| · <b>14.4 Packing group</b>              |                 |
| · <b>ADR,RID,ADN, IMDG, IATA</b>         | Not applicable. |
| · <b>14.5 Environmental hazards</b>      |                 |
| · <b>Marine pollutant:</b>               | No              |

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- |  |                 |
|--|-----------------|
| - 14.6 Special precautions for user  | Not applicable. |
| - 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| - UN "Model Regulation":   | -               |

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- MAK(German Maximum Workplace Concentration)

13463-67-7 titanium dioxide

3A

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations

- SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

- REACH Regulation Annex XVII Restriction  
See Section 16 for information about restriction of use.

None of the ingredients is listed.

- REACH Regulation Annex XIV Authorisation List

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY :**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

\*\*\*\*\*

End of document

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** Color lead (Steel Grey) for Zensations MP
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Drawing
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
This phone number is available only during office hours:  
9am to 5:30pm (Japan time)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **Information concerning particular hazards for human and environment:**  
The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.
- **Classification system:**  
The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable
- **Hazard-determining components of labelling:** Not applicable
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· <b>Composition:</b>		
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	48,0%
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	31,7%
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes, microcryst.	7,0%

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Trade name:

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CAS: 9004-32-4	Carboxymethylcellulose Sodium	6,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	3,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate substance with a Community workplace exposure limit	3,0%
CAS: 147-14-8 EINECS: 205-685-1	29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper	0,5%
CAS: 1333-86-4 EINECS: 215-609-9	Carbon black substance with a Community workplace exposure limit	0,4%
CAS: 1328-53-6 EINECS: 215-524-7	polychloro copper phthalocyanine	0,4%

**Remark:**

All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper (CAS No.147-14-8)  
Synonym: Copper phthalocyanine

polychloro copper phthalocyanine (CAS No.1328-53-6)  
Synonym: Pigment Green 7

**SECTION 4: First aid measures****4.1 Description of first aid measures**

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:**

Wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Rinse out mouth with water.  
Never give anything by mouth to an unconscious person.  
Seek medical treatment.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

**5.3 Advice for firefighters****Protective equipment:**

Wear fully protective suit.  
Mouth respiratory protective device.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

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Trade name:

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- Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
  - **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
  - **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with skin and eyes.  
For the general occupational hygienic measures refer to section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities:**  
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.  
· **Information about storage in one common storage facility:** Store away from foodstuffs.  
· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **8.1 Control parameters**  
· **Ingredients with limit values that require monitoring at the workplace:**

<b>1332-58-7 Kaolin (48,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (3,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig**einatembar; AGS, DFG
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
<b>557-05-1 zinc distearate (3,0%)</b>	
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
<b>1333-86-4 Carbon black (0,4%)</b>	
VME (France)	Long-term value: 3,5 mg/m <sup>3</sup>
WEL (Great Britain)	Short-term value: 7 mg/m <sup>3</sup> Long-term value: 3,5 mg/m <sup>3</sup>

- **DNELs:** Data not available
- **PNECs:** Data not available

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Trade name:

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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**
- **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.
- **Personal protective equipment:**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**  
Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **Appearance:**
- Form: Solid
- Colour: Stormy Grey
- **Odour:** Odourless
- **Odour threshold:** Data not available.
- **pH-value:** Data not available
- **Change in condition**
- Melting point/Melting range: Data not available.
- Boiling point/Boiling range: Data not available
- **Freezing point:** Data not available
- **Flash point:** Data not available
- **Flammability (solid, gaseous):** Date not available.
- **Auto-Ignition temperature:** Data not available
- **Decomposition temperature:** Date not available.

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· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
Lower:	Data not available.
Upper:	Data not available.
· <b>Oxidising properties</b>	Data not available
· <b>Vapour pressure:</b>	Date not available.
· <b>Density:</b>	Data not available.
· <b>Relative density</b>	Data not available.
· <b>Vapour density</b>	Date not available.
· <b>Evaporation rate</b>	Data not available
· <b>Solubility in / Miscibility with water:</b>	Data not available
· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
· <b>Viscosity:</b>	
Dynamic:	Data not available
Kinematic:	Data not available
· <b>9.2 Other information</b>	No further relevant information available.

#### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specification.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

#### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

<b>13463-67-7 titanium dioxide</b>		
Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)
<b>9004-32-4 Carboxymethylcellulose Sodium</b>		
Oral	LD50	> 27000 mg/kg (mouse) 27000 mg/kg (rat) > 27000 mg/kg (rabbit)
Dermal	LD50	>2000 mg/kg (rabbit)
<b>557-05-1 zinc distearate</b>		
Oral	LD50	> 10000 mg/kg (mouse) > 10000 mg/kg (rat)

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Trade name:

**1333-86-4 Carbon black**

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Oral	LD50	15400 mg/kg (rat)
Dermal	LD50	3000 mg/kg (rabbit)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |  |                |
|--|----------------|
| - <b>14.1 UN-Number</b>                  |                |
| - <b>ADR,RID,ADN, IMDG, IATA</b>         | Not applicable |
| - <b>14.2 UN proper shipping name</b>    |                |
| - <b>ADR,RID,ADN, IMDG, IATA</b>         | Not applicable |
| - <b>14.3 Transport hazard class(es)</b> |                |
| - <b>ADR,RID,ADN, IMDG, IATA</b>         |                |
| - <b>Class</b>                           | Not applicable |
| - <b>14.4 Packing group</b>              |                |
| - <b>ADR,RID,ADN, IMDG, IATA</b>         | Not applicable |

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Trade name:

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· 14.5 Environmental hazards	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· 14.8 Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

**SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· MAK (German Maximum Workplace Concentration)

13463-67-7	titanium dioxide	3A
1333-86-4	Carbon black	3B

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· National regulations:

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Other regulations, limitations and prohibitive regulations

· SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

· REACH Regulation Annex XVII Restriction

See Section 16 for information about restriction of use.

None of the ingredients is listed.

· REACH Regulation Annex XIV Authorization List

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

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Trade name:

PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 \*\*\*\*\*  
 End of document

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**Safety data sheet**  
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Color lead (Terracotta) for Zensations MP
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Drawing
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
This phone number is available only during office hours:  
9am to 5:30pm (Japan time)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **Information concerning particular hazards for human and environment:**  
The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.
- **Classification system:**  
The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable
- **Hazard-determining components of labelling:** Not applicable
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· <b>Composition:</b>		
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	45,5%
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	26,0%
CAS: 1332-37-2 EINECS: 215-570-8	Iron oxide	8,0%

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Trade name:

		(Contd. of page 1)
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes,microcryst.	7,0%
CAS: 9004-32-4	Carboxymethylcellulose Sodium	6,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate substance with a Community workplace exposure limit	3,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	3,0%
CAS: 2512-29-0 EINECS: 219-730-8	2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide	1,0%
CAS: 6410-26-0 EINECS: 229-096-4	4-[(2-chlorophenyl)azo]-3-hydroxy-N-phenyl-naphthalene-2-carboxamide	0,5%

**Remark:**

All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide (CAS No.2512-29-0)  
Synonym: Pigment Yellow 1

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Never give anything by mouth to an unconscious person.  
Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.

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Trade name:

Avoid contact with skin.

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· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Avoid contact with skin and eyes.

For the general occupational hygienic measures refer to section 8.

· **Information about fire - and explosion protection:** Normal measures for preventive fire protection.

· **7.2 Conditions for safe storage, including any incompatibilities:**

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**1332-58-7 Kaolin (45,5%)**

WEL (Great Britain) Long-term value: 2 mg/m<sup>3</sup>

**557-05-1 zinc distearate (3,0%)**

VME (France) Long-term value: 10 mg/m<sup>3</sup>

WEL (Great Britain) Short-term value: 20\* mg/m<sup>3</sup>

Long-term value: 10\* 4\*\* mg/m<sup>3</sup>

\*inhalable dust \*\*respirable dust

**13463-67-7 titanium dioxide (3,0%)**

AGW (Germany) Long-term value: 1,25\* 10\*\* mg/m<sup>3</sup>  
2(II); \*alveolengängig \*\*einatembar; AGS, DFG

VME (France) Long-term value: 10 mg/m<sup>3</sup>

WEL (Great Britain) Long-term value: 10\* 4\*\* mg/m<sup>3</sup>

\*total inhalable \*\*respirable

· **DNELs:** Data not available

· **PNECs:** Data not available

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**

· **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.

· **Personal protective equipment:**

· **Respiratory protection:** Suitable respiratory protective device recommended.

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Trade name:

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· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

· **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **Appearance:**

**Form:** Solid  
**Colour:** Cinnamon

· **Odour:** Odourless

· **Odour threshold:** Data not available.

· **pH-value:** Data not available

· **Change in condition**

**Melting point/Melting range:** Data not available.

**Boiling point/Boiling range:** Data not available

· **Freezing point:** Data not available

· **Flash point:** Data not available

· **Flammability (solid, gaseous):** Date not available.

· **Auto-Ignition temperature:** Data not available

· **Decomposition temperature:** Date not available.

· **Self-igniting:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

**Lower:** Data not available.

**Upper:** Data not available.

· **Oxidising properties:** Data not available

· **Vapour pressure:** Date not available.

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Trade name:

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· <b>Density:</b>	Data not available.
· <b>Relative density</b>	Data not available.
· <b>Vapour density</b>	Data not available.
· <b>Evaporation rate</b>	Data not available.
· <b>Solubility in / Miscibility with water:</b>	Data not available.
· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Data not available.
· <b>Kinematic:</b>	Data not available.
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specification.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:****13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**9004-32-4 Carboxymethylcellulose Sodium**

Oral	LD50	> 27000 mg/kg (mouse) 27000 mg/kg (rat) > 27000 mg/kg (rabbit)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-05-1 zinc distearate**

Oral	LD50	> 10000 mg/kg (mouse) > 10000 mg/kg (rat)
------	------	--

**2512-29-0 2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide**

Oral	LD50	>10000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.

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Trade name:

(Contd. of page 5)

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |  |
|--|--|
| - <b>14.1 UN-Number</b>  |  |
| - <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| - <b>14.2 UN proper shipping name</b>  |  |
| - <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| - <b>14.3 Transport hazard class(es)</b>   |  |
| - <b>ADR,RID,ADN, IMDG, IATA</b>   |  |
| - <b>Class</b>   | Not applicable                                       |
| - <b>14.4 Packing group</b>  |  |
| - <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| - <b>14.5 Environmental hazards</b>  | Not applicable.                                      |
| - <b>14.6 Special precautions for user</b>                                       | Not applicable.                                      |
| - <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                                      |
| - <b>14.8 Transport/Additional information:</b>                                  | Not dangerous according to the above specifications. |

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Trade name:

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UN "Model Regulation":

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****MAK (German Maximum Workplace Concentration)**

13463-67-7 titanium dioxide

3A

**Directive 2012/18/EU**

Named dangerous substances - ANNEX I None of the ingredients is listed.

**National regulations:**

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

**Other regulations, limitations and prohibitive regulations****SVHC Candidate List of REACH Regulation Annex XIV Authorisation**

None of the ingredients is listed.

**REACH Regulation Annex XVII Restriction**

See Section 16 for information about restriction of use.

None of the ingredients is listed.

**REACH Regulation Annex XIV Authorization List**

None of the ingredients is listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

\*\*\*\*\*

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

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**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

\*\*\*\*\*

End of document

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** Color lead (White) for Zensations MP
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Drawing
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
This phone number is available only during office hours:  
9am to 5:30pm (Japan time)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **Information concerning particular hazards for human and environment:**  
The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.
- **Classification system:**  
The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable
- **Hazard-determining components of labelling:** Not applicable
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:**  
Mixture of the substances listed below with nonhazardous additions.  
For the wording of the listed hazard statements refer to section 16.

· <b>Composition:</b>		
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	48,0%
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	31,0%

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Trade name:

		(Contd. of page 1)
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes, microcryst.	7,0%
CAS: 9004-32-4	Carboxymethylcellulose Sodium	6,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	3,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate substance with a Community workplace exposure limit	3,0%
CAS: 9000-01-5 EINECS: 232-519-5	Gum arabic Eye Irrit. 2, H319	2,0%

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Never give anything by mouth to an unconscious person.  
Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.

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- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with skin and eyes.  
For the general occupational hygienic measures refer to section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities:**  
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.  
· **Information about storage in one common storage facility:** Store away from foodstuffs.  
· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

##### · **Ingredients with limit values that require monitoring at the workplace:**

<b>1332-58-7 Kaolin (48,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (3,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II);*alveolengängig**einatembar; AGS, DFG
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
<b>557-05-1 zinc distearate (3,0%)</b>	
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust

- **DNELs:** Data not available
- **PNECs:** Data not available

· **Additional information:** The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

· **Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**

· **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.

· **Personal protective equipment:**

· **Respiratory protection:** Suitable respiratory protective device recommended.

· **Protection of hands:**



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **Appearance:**

· <b>Form:</b>	Solid
· <b>Colour:</b>	Snowy white
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Data not available.

· **pH-value:** Data not available

· **Change in condition**

· <b>Melting point/Melting range:</b>	Data not available.
· <b>Boiling point/Boiling range:</b>	Data not available
· <b>Freezing point:</b>	Data not available

· **Flash point:** Data not available

· **Flammability (solid, gaseous):** Date not available.

· **Auto-Ignition temperature:** Data not available

· **Decomposition temperature:** Date not available.

· **Self-igniting:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

· <b>Lower:</b>	Data not available.
· <b>Upper:</b>	Data not available.

· **Oxidising properties** Data not available

· **Vapour pressure:** Date not available.

· **Density:** Data not available.

· **Relative density** Data not available.

· **Vapour density** Date not available.

· **Evaporation rate** Data not available

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- |   |  |
|---|--|
| · <b>Solubility in / Miscibility with water:</b>  | Data not available                         |
| · <b>Partition coefficient (n-octanol/water):</b> | Data not available.                        |
| · <b>Viscosity:</b>                               |  |
| <b>Dynamic:</b>                                   | Data not available                         |
| <b>Kinematic:</b>                                 | Data not available                         |
| · <b>9.2 Other information</b>                    | No further relevant information available. |

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specification.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:****13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**9004-32-4 Carboxymethylcellulose Sodium**

Oral	LD50	> 27000 mg/kg (mouse) 27000 mg/kg (rat) > 27000 mg/kg (rabbit)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-05-1 zinc distearate**

Oral	LD50	> 10000 mg/kg (mouse) > 10000 mg/kg (rat)
------	------	--

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

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**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |  |  |
|--|--|
| · <b>14.1 UN-Number</b>  | Not applicable                                       |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.2 UN proper shipping name</b>  | Not applicable                                       |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.3 Transport hazard class(es)</b>   | Not applicable                                       |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>Class</b>   | Not applicable                                       |
| · <b>14.4 Packing group</b>  | Not applicable                                       |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.5 Environmental hazards</b>  | Not applicable.                                      |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable.                                      |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                                      |
| · <b>14.8 Transport/Additional information:</b>                                  | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>  | -  |

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**SECTION 15: Regulatory information**

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **MAK (German Maximum Workplace Concentration)**

13463-67-7 titanium dioxide

3A

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **National regulations:**

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **Other regulations, limitations and prohibitive regulations**

· **SVHC Candidate List of REACH Regulation Annex XIV Authorisation**

None of the ingredients is listed.

· **REACH Regulation Annex XVII Restriction**

· **See Section 16 for information about restriction of use.**

None of the ingredients is listed.

· **REACH Regulation Annex XIV Authorization List**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

· **Relevant hazard statements**

H319 Causes serious eye irritation.

· \*\*\*\*\*

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

· \*\*\*\*\*

End of document

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** *Color lead (Yellow Ochre Lt.)*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** *Drawing*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
**ZEBRA CO., LTD.**  
*2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN*  
*Phone: +81-3-3268-1193*  
*Fax: +81-3-3268-1197*  
*Emergency telephone : +81-3-3268-1193*  
*This phone number is available only during office hours:*  
*9am to 5:30pm (Japan time)*

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*
- **Information concerning particular hazards for human and environment:**  
*The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.*
- **Classification system:**  
*The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Not applicable*
- **Hazard pictograms** *Not applicable*
- **Signal word** *Not applicable*
- **Hazard-determining components of labelling:** *Not applicable*
- **Hazard statements** *Not applicable*
- **Precautionary statements** *Not applicable*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable*
- **vPvB:** *Not applicable*

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· **Composition:**

CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	48,0%
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	31,1%
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes, microcryst.	7,0%

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Trade name:

		(Contd. of page 1)
CAS: 9004-32-4	Carboxymethylcellulose Sodium	6,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	3,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate substance with a Community workplace exposure limit	3,0%
CAS: 1332-37-2 EINECS: 215-570-8	Iron oxide	1,2%
CAS: 2512-29-0 EINECS: 219-730-8	2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide	0,7%

**Remark:**

All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide (CAS No.2512-29-0)

Synonym: Pigment Yellow 1

**SECTION 4: First aid measures****4.1 Description of first aid measures**

• **After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:**

Wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Rinse out mouth with water.

Never give anything by mouth to an unconscious person.

Seek medical treatment.

• **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

• **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

**5.3 Advice for firefighters****Protective equipment:**

Wear fully protective suit.

Mouth respiratory protective device.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes.

Avoid contact with skin.

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- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with skin and eyes.  
For the general occupational hygienic measures refer to section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities:**  
**Requirements to be met by storerooms and receptacles:** Store in a cool location.  
**Information about storage in one common storage facility:** Store away from foodstuffs.  
**Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**· **8.1 Control parameters**· **Ingredients with limit values that require monitoring at the workplace:**

<b>1332-58-7 Kaolin (48,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (3,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II);*alveolengängig**eintembar; AGS, DFG
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
<b>557-05-1 zinc distearate (3,0%)</b>	
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust

- **DNELs:** Data not available
- **PNECs:** Data not available
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**
- **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.
- **Personal protective equipment:**
- **Respiratory protection:** Suitable respiratory protective device recommended.

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· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

· **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **Appearance:**

· <b>Form:</b>	Solid
· <b>Colour:</b>	Mustard Yellow
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Data not available.

· **pH-value:** Data not available

· **Change in condition**

· <b>Melting point/Melting range:</b>	Data not available.
· <b>Boiling point/Boiling range:</b>	Data not available
· <b>Freezing point:</b>	Data not available

· **Flash point:** Data not available

· **Flammability (solid, gaseous):** Date not available.

· **Auto-Ignition temperature:** Data not available

· **Decomposition temperature:** Date not available.

· **Self-igniting:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

· <b>Lower:</b>	Data not available.
· <b>Upper:</b>	Data not available.
· <b>Oxidising properties</b>	Data not available

· **Vapour pressure:** Date not available.

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· <b>Density:</b>	Data not available.
· <b>Relative density</b>	Data not available.
· <b>Vapour density</b>	Data not available.
· <b>Evaporation rate</b>	Data not available.

· <b>Solubility in / Miscibility with water:</b>	Data not available
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· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
---	---------------------

· <b>Viscosity:</b>	
<b>Dynamic:</b>	Data not available
<b>Kinematic:</b>	Data not available

· <b>9.2 Other information</b>	No further relevant information available.
--------------------------------	--

#### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specification.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

#### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**9004-32-4 Carboxymethylcellulose Sodium**

Oral	LD50	> 27000 mg/kg (mouse) 27000 mg/kg (rat) > 27000 mg/kg (rabbit)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-05-1 zinc distearate**

Oral	LD50	> 10000 mg/kg (mouse) > 10000 mg/kg (rat)
------	------	--

**2512-29-0 2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide**

Oral	LD50	>10000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.

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Trade name:

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- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |  |
|--|--|
| - <b>14.1 UN-Number</b>  |  |
| - <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| - <b>14.2 UN proper shipping name</b>  |  |
| - <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| - <b>14.3 Transport hazard class(es)</b>   |  |
| - <b>ADR,RID,ADN, IMDG, IATA</b>   |  |
| - <b>Class</b>   | Not applicable                                       |
| - <b>14.4 Packing group</b>  |  |
| - <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| - <b>14.5 Environmental hazards</b>  | Not applicable.                                      |
| - <b>14.6 Special precautions for user</b>                                       | Not applicable.                                      |
| - <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                                      |
| - <b>14.8 Transport/Additional information:</b>                                  | Not dangerous according to the above specifications. |

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EU

**Safety data sheet**  
Regulation(EC) No. 1907/2006, 1272/2008

Printing date 11.10.2020

Revision 10.10.2020

Trade name:

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· UN "Model Regulation": -

**SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· MAK (German Maximum Workplace Concentration)

13463-67-7 titanium dioxide

3A

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· National regulations:

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Other regulations, limitations and prohibitive regulations

· SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

· REACH Regulation Annex XVII Restriction

See Section 16 for information about restriction of use.

None of the ingredients is listed.

· REACH Regulation Annex XIV Authorization List

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

\*\*\*\*\*

End of document

EU

**Safety Data Sheet**  
Regulation(EC) No.1907/2006, 1272/2008

Printing date 16.06.2021

Revision 16.06.2021

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** *Color lead (Yellow) for Zensations MP*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** *Drawing*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
*This phone number is available only during office hours:  
9am to 5:30pm (Japan time)*

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*
- **Information concerning particular hazards for human and environment:**  
*The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.*
- **Classification system:**  
*The classification is according to the EU Regulation 1272/2008/EC, and extended by company and literature data.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Not applicable.*
- **Hazard pictograms** *Not applicable.*
- **Signal word** *Not applicable.*
- **Hazard-determining components of labelling:** *Not applicable.*
- **Hazard statements** *Not applicable.*
- **Precautionary statements** *Not applicable.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

- **Composition:**

CAS: 1319-41-1 EINECS: 215-289-0	Saponite	30,0%
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	30,0%
CAS: 9004-32-4	carboxymethyl cellulose, sodium salt	11,0%

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**Safety Data Sheet**  
Regulation(EC) No.1907/2006, 1272/2008

Printing date 16.06.2021

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Trade name:

		(Contd. of page 1)
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	10,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	6,0%
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes,microcryst.	6,0%
CAS: 2512-29-0 EINECS: 219-730-8	2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide	5,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate, pure substance with a Community workplace exposure limit	1,5%
CAS: 147-14-8 EINECS: 205-685-1	29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper	0,5%

· **Remark** : All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Seek immediate medical advice.  
Never give anything by mouth to an unconscious person.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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Printing date 16.06.2021

Revision 16.06.2021

Trade name:

(Contd. of page 2)

- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with eyes and skin.  
For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

<b>1332-58-7 Kaolin (10,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (6,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig **einatembar; AGS, DFG
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
<b>557-05-1 zinc distearate, pure (1,5%)</b>	
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
VME (France)	Long-term value: 10 mg/m <sup>3</sup>

- **DNELs:** Not applicable.
- **PNECs:** Not applicable.

· **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**
- **Appropriate engineering controls** See Section 7 for information about design of technical facilities.

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**Safety Data Sheet**  
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Trade name:

(Contd. of page 3)

- **Personal protective equipment**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Solid

**Colour:** Yellow

- **Odour:** Odourless

- **Odour threshold:** Data not available.

- **pH-value:** Data not available.

- **Change in condition:**

**Melting point/Melting range:** Data not available.

- **Freezing point:** Data not available.

- **Boiling point/Boiling range:** Data not available.

- **Flash point:** Data not available.

- **Flammability (solid, gaseous):** Data not available.

- **Auto-ignition temperature:** Data not available.

- **Decomposition temperature:** Data not available.

- **Self-igniting:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits**

**Lower:** Data not available.

**Upper:** Data not available.

(Contd. on page 5)

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Printing date 16.06.2021

Revision 16.06.2021

Trade name:

(Contd. of page 4)

· <b>Oxidizing properties:</b>	Data not available.
· <b>Vapour pressure:</b>	Data not available.
· <b>Density:</b>	Data not available.
· <b>Relative density:</b>	Data not available.
· <b>Vapour density:</b>	Data not available.
· <b>Evaporation rate:</b>	Data not available.
· <b>Solubility in / Miscibility with water:</b>	Data not available.
· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Data not available.
<b>Kinematic:</b>	Data not available.
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:****13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**63231-60-7 Paraffin waxes and Hydrocarbon waxes, microcryst.**

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3600 mg/kg (rabbit)

**9004-32-4 carboxymethyl cellulose, sodium salt**

Oral	LD50	27000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-04-0 magnesium distearate, pure**

Oral	LD50	>2000 mg/kg (rat)
------	------	-------------------

**557-05-1 zinc distearate, pure**

Oral	LD50	>10000 mg/kg (mouse)
		>10000 mg/kg (rat)

**147-14-8 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper**

Oral	LD50	>2000 mg/kg (rat)
------	------	-------------------

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Printing date 16.06.2021

Revision 16.06.2021

Trade name:

(Contd. of page 5)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                                    | Not applicable. |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                      | Not applicable. |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b><br>· <b>Class</b> | Not applicable. |
| · <b>14.4 Packing group</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                                | Not applicable. |
| · <b>14.5 Environmental hazards</b><br>· <b>Marine pollutant:</b>                              | No              |

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Printing date 16.06.2021

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Trade name:

(Contd. of page 6)

- |  |                 |
|--|-----------------|
| · 14.6 Special precautions for user  | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation";   | =               |

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- MAK(German Maximum Workplace Concentration)

13463-67-7 titanium dioxide	3A
-----------------------------	----

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations

- SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

- REACH Regulation Annex XVII Restriction  
See Section 16 for information about restriction of use.

None of the ingredients is listed.

- REACH Regulation Annex XIV Authorisation List

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

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**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

\*\*\*\*\*  
End of document

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**Safety Data Sheet**  
Regulation(EC) No.1907/2006, 1272/2008

Printing date 16.06.2021

Revision 16.06.2021

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
  - **Trade name:** *Color lead (Black) for Zensations MP*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - **Application of the substance / the mixture:** *Drawing*
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
    - ZEBRA CO., LTD.
    - 2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN
    - Phone: +81-3-3268-1193
    - Fax: +81-3-3268-1197
    - Emergency telephone : +81-3-3268-1193
    - This phone number is available only during office hours:
    - 9am to 5:30pm (Japan time)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**
  - *The product is not classified according to the CLP regulation.*
  - **Information concerning particular hazards for human and environment:**
  - *The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.*
  - **Classification system:**
  - *The classification is according to the EU Regulation 1272/2008/EC, and extended by company and literature data.*
- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008** *Not applicable.*
  - **Hazard pictograms** *Not applicable.*
  - **Signal word** *Not applicable.*
  - **Hazard-determining components of labelling:** *Not applicable.*
  - **Hazard statements** *Not applicable.*
  - **Precautionary statements** *Not applicable.*
- **2.3 Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** *Not applicable.*
  - **vPvB:** *Not applicable.*

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

• <b>Composition:</b>		
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	28,0%
CAS: 1319-41-1 EINECS: 215-289-0	Saponite	23,0%
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	18,0%

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Trade name:

		(Contd. of page 1)
CAS: 1333-86-4 EINECS: 215-609-9	carbon black substance with a Community workplace exposure limit	12,0%
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes, microcryst.	8,0%
CAS: 9004-32-4	carboxymethyl cellulose, sodium salt	7,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	2,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate, pure substance with a Community workplace exposure limit	2,0%

· **Remark :** All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Seek medical treatment.  
Never give anything by mouth to an unconscious person.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.

(Contd. on page 3)

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**Safety Data Sheet**  
Regulation(EC) No.1907/2006, 1272/2008

Printing date 16.06.2021

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Trade name:

(Contd. of page 2)

- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with eyes and skin.  
For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**· **8.1 Control parameters**· **Ingredients with limit values that require monitoring at the workplace:**

<b>1332-58-7 Kaolin (18,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>1333-86-4 carbon black (12,0%)</b>	
WEL (Great Britain)	Short-term value: 7 mg/m <sup>3</sup> Long-term value: 3,5 mg/m <sup>3</sup>
VME (France)	Long-term value: 3,5 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (2,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II);*alveolengängig**einstaubbar; AGS, DFG
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
<b>557-05-1 zinc distearate, pure (2,0%)</b>	
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
VME (France)	Long-term value: 10 mg/m <sup>3</sup>

- **DNELs:** Not applicable.
- **PNECs:** Not applicable.
- **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**

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- **Appropriate engineering controls** See Section 7 for information about design of technical facilities.
- **Personal protective equipment**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Solid
<b>Colour:</b>	Black
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Data not available.

- **pH-value:** Data not available.

- **Change in condition:**

<b>Melting point/Melting range:</b>	Data not available.
<b>Freezing point:</b>	Data not available.
<b>Boiling point/Boiling range:</b>	Data not available.

- **Flash point:** Data not available.

- **Flammability (solid, gaseous):** Data not available.

- **Auto-ignition temperature:** Data not available.

- **Decomposition temperature:** Data not available.

- **Self-igniting:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits**

- **Lower:** Data not available.

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Upper:	Data not available.
· Oxidizing properties:	Data not available.
· Vapour pressure:	Data not available.
· Density:	Data not available.
· Relative density:	Data not available.
· Vapour density:	Data not available.
· Evaporation rate:	Data not available.
· Solubility in / Miscibility with water:	Data not available.
· Partition coefficient (n-octanol/water):	Data not available.
· Viscosity:	
Dynamic:	Data not available.
Kinematic:	Data not available.
· 9.2 Other information	No further relevant information available.

**SECTION 10: Stability and reactivity**

- 10.1 Reactivity No decomposition if used according to specifications.
- 10.2 Chemical stability Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- Acute toxicity

## · LD/LC50 values relevant for classification:

**13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**63231-60-7 Paraffin waxes and Hydrocarbon waxes, microcryst.**

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3600 mg/kg (rabbit)

**9004-32-4 carboxymethyl cellulose, sodium salt**

Oral	LD50	27000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-04-0 magnesium distearate, pure**

Oral	LD50	>2000 mg/kg (rat)
------	------	-------------------

**557-05-1 zinc distearate, pure**

Oral	LD50	>10000 mg/kg (mouse)
		>10000 mg/kg (rat)

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Trade name:

**1333-86-4 carbon black**

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Oral	LD50	>8000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rabbit)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b>                  |                 |
| · <b>ADR,RID,ADN, IMDG, IATA</b>         | Not applicable. |
| · <b>14.2 UN proper shipping name</b>    |                 |
| · <b>ADR,RID,ADN, IMDG, IATA</b>         | Not applicable. |
| · <b>14.3 Transport hazard class(es)</b> |                 |
| · <b>ADR,RID,ADN, IMDG, IATA</b>         |                 |
| · <b>Class</b>                           | Not applicable. |
| · <b>14.4 Packing group</b>              |                 |
| · <b>ADR,RID,ADN, IMDG, IATA</b>         | Not applicable. |

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Trade name:

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- |  |                 |
|--|-----------------|
| - 14.5 Environmental hazards   |                 |
| - Marine pollutant:  | No              |
| - 14.6 Special precautions for user  | Not applicable. |
| - 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| - UN "Model Regulation":   | -               |

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- MAK(German Maximum Workplace Concentration)

1333-86-4	carbon black	3B
13463-67-7	titanium dioxide	3A

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations

- SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

- REACH Regulation Annex XVII Restriction  
See Section 16 for information about restriction of use.

None of the ingredients is listed.

- REACH Regulation Annex XIV Authorisation List

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY :**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

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Trade name:

LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Color lead (Blue) for Zensations MP
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Drawing
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
This phone number is available only during office hours:  
9am to 5:30pm (Japan time)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **Information concerning particular hazards for human and environment:**  
The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.
- **Classification system:**  
The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable
- **Hazard-determining components of labelling:** Not applicable
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Composition:**

CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	41,0%
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	26,0%
CAS: 1332-37-2 EINECS: 215-570-8	Iron oxide	13,64%

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Trade name:

		(Contd. of page 1)
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes,microcryst.	7,0%
CAS: 9004-32-4	Carboxymethylcellulose Sodium	6,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate substance with a Community workplace exposure limit	3,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	3,0%
CAS: 6410-26-0 EINECS: 229-096-4	4-[(2-chlorophenyl)azo]-3-hydroxy-N-phenylnaphthalene-2-carboxamide	0,15%
CAS: 2512-29-0 EINECS: 219-730-8	2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide	0,15%
CAS: 1333-86-4 EINECS: 215-609-9	Carbon black substance with a Community workplace exposure limit	0,06%

**Remark:**

All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide (CAS No.2512-29-0)  
Synonym: Pigment Yellow 1

**SECTION 4: First aid measures****4.1 Description of first aid measures**

• **After inhalation:** Supply fresh air; consult doctor in case of complaints.

• **After skin contact:**

Wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.

• **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• **After swallowing:**

Rinse out mouth with water.  
Never give anything by mouth to an unconscious person.  
Seek medical treatment.

• **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

• **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**• **Suitable extinguishing agents:**

CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

**5.3 Advice for firefighters**• **Protective equipment:**

Wear fully protective suit.  
Mouth respiratory protective device.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.  
Avoid formation of dust.

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- Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
  - **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
  - **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with skin and eyes.  
For the general occupational hygienic measures refer to section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

<b>1332-58-7 Kaolin (41,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>557-05-1 zinc distearate (3,0%)</b>	
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
<b>13463-67-7 titanium dioxide (3,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II);*alveolengängig**einatembare; AGS, DFG
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
<b>1333-86-4 Carbon black (0,06%)</b>	
VME (France)	Long-term value: 3,5 mg/m <sup>3</sup>
WEL (Great Britain)	Short-term value: 7 mg/m <sup>3</sup> Long-term value: 3,5 mg/m <sup>3</sup>

- **DNELs:** Data not available
- **PNECs:** Data not available
- **Additional information:** The lists valid during the making were used as basis.

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- **8.2 Exposure controls**
- **Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**
- **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.
- **Personal protective equipment:**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **Appearance:**

<b>Form:</b>	Solid
<b>Colour:</b>	Ocean Blue
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Data not available.

- **pH-value:** Data not available

- **Change in condition**

<b>Melting point/Melting range:</b>	Data not available.
<b>Boiling point/Boiling range:</b>	Data not available
<b>Freezing point:</b>	Data not available

- **Flash point:** Data not available

- **Flammability (solid, gaseous):** Date not available.

- **Auto-Ignition temperature:** Data not available

- **Decomposition temperature:** Date not available.

- **Self-igniting:** Product is not selfigniting.

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- |  |   |
|--|---|
| - Explosive properties:                    | Product does not present an explosion hazard. |
| - Explosion limits:                        |   |
| Lower:                                     | Data not available.                           |
| Upper:                                     | Data not available.                           |
| - Oxidising properties                     | Data not available                            |
| - Vapour pressure:                         | Data not available.                           |
| - Density:                                 | Data not available.                           |
| - Relative density                         | Data not available.                           |
| - Vapour density                           | Data not available.                           |
| - Evaporation rate                         | Data not available                            |
| - Solubility in / Miscibility with water:  | Data not available                            |
| - Partition coefficient (n-octanol/water): | Data not available.                           |
| - Viscosity:                               |   |
| Dynamic:                                   | Data not available                            |
| Kinematic:                                 | Data not available                            |
| - 9.2 Other information                    | No further relevant information available.    |

**SECTION 10: Stability and reactivity**

- 10.1 Reactivity No decomposition if used according to specification.
- 10.2 Chemical stability Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:****13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**9004-32-4 Carboxymethylcellulose Sodium**

Oral	LD50	> 27000 mg/kg (mouse) 27000 mg/kg (rat) > 27000 mg/kg (rabbit)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-05-1 zinc distearate**

Oral	LD50	> 10000 mg/kg (mouse) > 10000 mg/kg (rat)
------	------	--

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Trade name:

**1333-86-4 Carbon black**

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Oral	LD50	15400 mg/kg (rat)
Dermal	LD50	3000 mg/kg (rabbit)

**2512-29-0 2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide**

Oral	LD50	>10000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |                                       |                |
|---------------------------------------|----------------|
| · <b>14.1 UN-Number</b>               |                |
| · <b>ADR,RID,ADN, IMDG, IATA</b>      | Not applicable |
| · <b>14.2 UN proper shipping name</b> |                |
| · <b>ADR,RID,ADN, IMDG, IATA</b>      | Not applicable |

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Trade name:

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- **14.3 Transport hazard class(es)**
- **ADR,RID,ADN, IMDG, IATA**
- **Class** Not applicable
- **14.4 Packing group**
- **ADR,RID,ADN, IMDG, IATA** Not applicable
- **14.5 Environmental hazards** Not applicable.
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **14.8 Transport/Additional information:** Not dangerous according to the above specifications.
- **UN "Model Regulation":** -

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **MAK (German Maximum Workplace Concentration)**

13463-67-7	titanium dioxide	3A
1333-86-4	Carbon black	3B

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations:**
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**

- **SVHC Candidate List of REACH Regulation Annex XIV Authorisation**

None of the ingredients is listed.

- **REACH Regulation Annex XVII Restriction**  
See Section 16 for information about restriction of use.

None of the ingredients is listed.

- **REACH Regulation Annex XIV Authorization List**

None of the ingredients is listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

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• **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*DNEL: Derived No-Effect Level (REACH)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

\*\*\*\*\*

End of document

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** Color lead (Blush Pink) for Zensations MP
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Drawing
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
This phone number is available only during office hours:  
9am to 5:30pm (Japan time)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **Information concerning particular hazards for human and environment:**  
The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.
- **Classification system:**  
The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable
- **Hazard-determining components of labelling:** Not applicable
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:**  
Mixture of the substances listed below with nonhazardous additions.  
For the wording of the listed hazard statements refer to section 16.

· <b>Composition:</b>		
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	38,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate substance with a Community workplace exposure limit	26,0%

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Trade name:

		(Contd. of page 1)
CAS: 9004-32-4	Carboxymethylcellulose Sodium	10,0%
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes, microcryst.	9,0%
CAS: 6410-26-0 EINECS: 229-096-4	4-[(2-chlorophenyl)azo]-3-hydroxy-N-phenylnaphthalene-2-carboxamide	7,0%
CAS: 9000-01-5 EINECS: 232-519-5	Gum arabic ⚠ Eye Irrit. 2, H319	5,0%
CAS: 15793-73-4 EINECS: 239-898-6	4,4'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[2,4-dihydro-5-methyl-2-(p-tolyl)-3H-pyrazol-3-one]	3,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	2,0%

## · Remark:

4,4'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[2,4-dihydro-5-methyl-2-(p-tolyl)-3H-pyrazol-3-one]  
(CAS No. 15793-73-4)

Synonym: Pigment Orange 34

**SECTION 4: First aid measures**

## · 4.1 Description of first aid measures

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth with water.

Never give anything by mouth to an unconscious person.

Seek medical treatment.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures**

## · 5.1 Extinguishing media

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

## · 5.3 Advice for firefighters

· **Protective equipment:**

Wear fully protective suit.

Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

## · 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes.

Avoid contact with skin.

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- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with skin and eyes.  
For the general occupational hygienic measures refer to section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities:**  
**Requirements to be met by storerooms and receptacles:** Store in a cool location.  
**Information about storage in one common storage facility:** Store away from foodstuffs.  
**Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### - 8.1 Control parameters

##### - **Ingredients with limit values that require monitoring at the workplace:**

<b>1332-58-7 Kaolin (38,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>557-05-1 zinc distearate (26,0%)</b>	
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
<b>13463-67-7 titanium dioxide (2,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig **einatembar; AGS, DFG
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable

- **DNELs:** Data not available
- **PNECs:** Data not available
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**  
**Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**  
**Appropriate engineering controls:** See Section 7 for information about design of technical facilities.
- **Personal protective equipment:**  
**Respiratory protection:** Suitable respiratory protective device recommended.

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Trade name:

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· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

· **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **Appearance:**

· <b>Form:</b>	Solid
· <b>Colour:</b>	Watermelon
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Data not available.

· **pH-value:** Data not available

· **Change in condition**

· <b>Melting point/Melting range:</b>	Data not available.
· <b>Boiling point/Boiling range:</b>	Data not available
· <b>Freezing point:</b>	Data not available

· **Flash point:** Data not available

· **Flammability (solid, gaseous):** Date not available.

· **Auto-Ignition temperature:** Data not available

· **Decomposition temperature:** Date not available.

· **Self-igniting:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

· <b>Lower:</b>	Data not available.
· <b>Upper:</b>	Data not available.

· **Oxidising properties** Data not available

· **Vapour pressure:** Date not available.

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Trade name:

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- <b>Density:</b>	Data not available.
- <b>Relative density</b>	Data not available.
- <b>Vapour density</b>	Data not available.
- <b>Evaporation rate</b>	Data not available.
- <b>Solubility in / Miscibility with water:</b>	Data not available.
- <b>Partition coefficient (n-octanol/water):</b>	Data not available.
- <b>Viscosity:</b>	
<b>Dynamic:</b>	Data not available.
<b>Kinematic:</b>	Data not available.
- <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specification.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:****13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**9004-32-4 Carboxymethylcellulose Sodium**

Oral	LD50	> 27000 mg/kg (mouse) 27000 mg/kg (rat) > 27000 mg/kg (rabbit)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-05-1 zinc distearate**

Oral	LD50	> 10000 mg/kg (mouse) > 10000 mg/kg (rat)
------	------	--

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

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Trade name:

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· **Aspiration hazard:** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |  |
|--|--|
| · <b>14.1 UN-Number</b>  |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.2 UN proper shipping name</b>  |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.3 Transport hazard class(es)</b>   |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   |  |
| · <b>Class</b>   | Not applicable                                       |
| · <b>14.4 Packing group</b>  |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.5 Environmental hazards</b>  | Not applicable.                                      |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable.                                      |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                                      |
| · <b>14.8 Transport/Additional information:</b>                                  | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>  | -  |

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Trade name:

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**SECTION 15: Regulatory information**

## · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

## · MAK (German Maximum Workplace Concentration)

13463-67-7 titanium dioxide

3A

## · Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

## · National regulations:

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

## · Other regulations, limitations and prohibitive regulations

## · SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

## · REACH Regulation Annex XVII Restriction

See Section 16 for information about restriction of use.

None of the ingredients is listed.

## · REACH Regulation Annex XIV Authorization List

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

## · Relevant hazard statements

H319 Causes serious eye irritation.

· \*\*\*\*\*

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

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## · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

· \*\*\*\*\*

End of document

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Printing date 16.06.2021

Revision 16.06.2021

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
  - **Trade name:** *Color lead (Bright Lilac) for Zensations MP*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - **Application of the substance / the mixture:** *Drawing*
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
*ZEBRA CO., LTD.*  
*2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN*  
*Phone: +81-3-3268-1193*  
*Fax: +81-3-3268-1197*  
*Emergency telephone : +81-3-3268-1193*  
*This phone number is available only during office hours:*  
*9am to 5:30pm (Japan time)*

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*
  - **Information concerning particular hazards for human and environment:**  
*The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.*
  - **Classification system:**  
*The classification is according to the EU Regulation 1272/2008/EC, and extended by company and literature data.*
- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008** *Not applicable.*
  - **Hazard pictograms** *Not applicable.*
  - **Signal word** *Not applicable.*
  - **Hazard-determining components of labelling:** *Not applicable.*
  - **Hazard statements** *Not applicable.*
  - **Precautionary statements** *Not applicable.*
- **2.3 Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** *Not applicable.*
  - **vPvB:** *Not applicable.*

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· <b>Composition:</b>		
CAS: 1319-41-1 EINECS: 215-289-0	Saponite	29,0%
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	28,0%
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	18,0%

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Trade name:

		(Contd. of page 1)
CAS: 9004-32-4	carboxymethyl cellulose, sodium salt	8,0%
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes,microcryst.	7,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	4,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate, pure substance with a Community workplace exposure limit	3,0%
CAS: 6410-26-0 EINECS: 229-096-4	4-[(2-chlorophenyl)azo]-3-hydroxy-N-phenyl-naphthalene-2-carboxamide	2,0%
CAS: 5281-04-9 EINECS: 226-109-5	calcium 3-hydroxy-4-[(4-methyl-2-sulphonatophenyl)azo]-2-naphthoate	1,0%

*Remark : All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.*

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Seek medical treatment.  
Never give anything by mouth to an unconscious person.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

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Trade name:

(Contd. of page 2)

- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with eyes and skin.  
For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

<b>1332-58-7 Kaolin (18,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (4,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II);*alveolengängig**einatembar; AGS, DFG
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
<b>557-05-1 zinc distearate, pure (3,0%)</b>	
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
VME (France)	Long-term value: 10 mg/m <sup>3</sup>

- **DNELs:** Not applicable.
- **PNECs:** Not applicable.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**
- **Appropriate engineering controls** See Section 7 for information about design of technical facilities.

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Trade name:

(Contd. of page 3)

- **Personal protective equipment**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

· <b>Form:</b>	Solid
· <b>Colour:</b>	Purple
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Data not available.

- **pH-value:** Data not available.

- **Change in condition:**

· <b>Melting point/Melting range:</b>	Data not available.
· <b>Freezing point:</b>	Data not available.
· <b>Boiling point/Boiling range:</b>	Data not available.

- **Flash point:** Data not available.

- **Flammability (solid, gaseous):** Data not available.

- **Auto-ignition temperature:** Data not available.

- **Decomposition temperature:** Data not available.

- **Self-igniting:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits**

· <b>Lower:</b>	Data not available.
· <b>Upper:</b>	Data not available.

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Trade name:

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· <b>Oxidizing properties:</b>	Data not available.
· <b>Vapour pressure:</b>	Data not available.
· <b>Density:</b>	Data not available.
· <b>Relative density:</b>	Data not available.
· <b>Vapour density:</b>	Data not available.
· <b>Evaporation rate:</b>	Data not available.
· <b>Solubility in / Miscibility with water:</b>	Data not available.
· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Data not available.
<b>Kinematic:</b>	Data not available.
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

**13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**63231-60-7 Paraffin waxes and Hydrocarbon waxes,microcryst.**

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3600 mg/kg (rabbit)

**9004-32-4 carboxymethyl cellulose, sodium salt**

Oral	LD50	27000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-04-0 magnesium distearate, pure**

Oral	LD50	>2000 mg/kg (rat)
------	------	-------------------

**557-05-1 zinc distearate, pure**

Oral	LD50	>10000 mg/kg (mouse)
		>10000 mg/kg (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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Trade name:

(Contd. of page 5)

- **Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |   |                 |
|---|-----------------|
| · <b>14.1 UN-Number</b>   | Not applicable. |
| · <b>ADR,RID,ADN, IMDG, IATA</b>  | Not applicable. |
| · <b>14.2 UN proper shipping name</b>   | Not applicable. |
| · <b>ADR,RID,ADN, IMDG, IATA</b>  | Not applicable. |
| · <b>14.3 Transport hazard class(es)</b>  | Not applicable. |
| · <b>ADR,RID,ADN, IMDG, IATA</b>  | Not applicable. |
| · <b>Class</b>  | Not applicable. |
| · <b>14.4 Packing group</b>   | Not applicable. |
| · <b>ADR,RID,ADN, IMDG, IATA</b>  | Not applicable. |
| · <b>14.5 Environmental hazards</b>   | No              |
| · <b>Marine pollutant:</b>  | No              |
| · <b>14.6 Special precautions for user</b>  | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |

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Trade name:

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- UN "Model Regulation": -

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- MAK(German Maximum Workplace Concentration)

13463-67-7 titanium dioxide

3A

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.

- National regulations:

- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

- Other regulations, limitations and prohibitive regulations

- SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

- REACH Regulation Annex XVII Restriction

See Section 16 for information about restriction of use.

None of the ingredients is listed.

- REACH Regulation Annex XIV Authorisation List

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY :**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

\*\*\*\*\*  
End of document

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**Safety data sheet**  
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name: Color lead (Brown) for Zensations MP**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Drawing
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
This phone number is available only during office hours:  
9am to 5:30pm (Japan time)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **Information concerning particular hazards for human and environment:**  
The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.
- **Classification system:**  
The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable
- **Hazard-determining components of labelling:** Not applicable
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· <b>Composition:</b>		
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	44,0%
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	26,0%
CAS: 1332-37-2 EINECS: 215-570-8	Iron oxide	10,0%

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Trade name:

		(Contd. of page 1)
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes,microcryst.	7,0%
CAS: 9004-32-4	Carboxymethylcellulose Sodium	6,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate substance with a Community workplace exposure limit	3,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	3,0%
CAS: 2512-29-0 EINECS: 219-730-8	2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide	1,0%

**Remark:**

All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide (CAS No.2512-29-0)

Synonym: Pigment Yellow 1

**SECTION 4: First aid measures****4.1 Description of first aid measures**

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:**

Wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Rinse out mouth with water.

Never give anything by mouth to an unconscious person.

Seek medical treatment.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

**5.3 Advice for firefighters****Protective equipment:**

Wear fully protective suit.

Mouth respiratory protective device.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes.

Avoid contact with skin.

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Trade name:

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- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with skin and eyes.  
For the general occupational hygienic measures refer to section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities:**  
**Requirements to be met by storerooms and receptacles:** Store in a cool location.  
**Information about storage in one common storage facility:** Store away from foodstuffs.  
**Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

<b>1332-58-7 Kaolin (44,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>557-05-1 zinc distearate (3,0%)</b>	
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
<b>13463-67-7 titanium dioxide (3,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig **einatembar; AGS, DFG
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable

- **DNELs:** Data not available
- **PNECs:** Data not available

· **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**
- **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.
- **Personal protective equipment:**
- **Respiratory protection:** Suitable respiratory protective device recommended.

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Trade name:

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· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **Appearance:**

· <b>Form:</b>	Solid
· <b>Colour:</b>	Desert Sand
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Data not available.

· **pH-value:** Data not available

· **Change in condition**

· <b>Melting point/Melting range:</b>	Data not available.
· <b>Boiling point/Boiling range:</b>	Data not available
· <b>Freezing point:</b>	Data not available

· **Flash point:** Data not available

· **Flammability (solid, gaseous):** Date not available.

· **Auto-Ignition temperature:** Data not available

· **Decomposition temperature:** Date not available.

· **Self-igniting:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

· <b>Lower:</b>	Data not available.
· <b>Upper:</b>	Data not available.
· <b>Oxidising properties</b>	Data not available

· **Vapour pressure:** Date not available.

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Trade name:

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- <b>Density:</b>	Data not available.
- <b>Relative density</b>	Data not available.
- <b>Vapour density</b>	Data not available.
- <b>Evaporation rate</b>	Data not available.
- <b>Solubility in / Miscibility with water:</b>	Data not available.
- <b>Partition coefficient (n-octanol/water):</b>	Data not available.
- <b>Viscosity:</b>	
<b>Dynamic:</b>	Data not available.
<b>Kinematic:</b>	Data not available.
- <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specification.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:****13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**9004-32-4 Carboxymethylcellulose Sodium**

Oral	LD50	> 27000 mg/kg (mouse) 27000 mg/kg (rat) > 27000 mg/kg (rabbit)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-05-1 zinc distearate**

Oral	LD50	> 10000 mg/kg (mouse) > 10000 mg/kg (rat)
------	------	--

**2512-29-0 2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide**

Oral	LD50	>10000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.

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Trade name:

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- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |  |  |
|--|--|
| · <b>14.1 UN-Number</b>  |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.2 UN proper shipping name</b>  |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.3 Transport hazard class(es)</b>   |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   |  |
| · <b>Class</b>   | Not applicable                                       |
| · <b>14.4 Packing group</b>  |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.5 Environmental hazards</b>  | Not applicable.                                      |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable.                                      |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                                      |
| · <b>14.8 Transport/Additional information:</b>                                  | Not dangerous according to the above specifications. |

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Printing date 11.10.2020

Revision 10.10.2020

Trade name:

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UN "Model Regulation": -

**SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

MAK (German Maximum Workplace Concentration)

13463-67-7 titanium dioxide

3A

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations

SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

REACH Regulation Annex XVII Restriction

See Section 16 for information about restriction of use.

None of the ingredients is listed.

REACH Regulation Annex XIV Authorization List

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

\*\*\*\*\*

End of document

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**Safety Data Sheet**  
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Printing date 16.06.2021

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** *Color lead (Dark Brown) for Zensations MP*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** *Drawing*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*ZEBRA CO., LTD.*  
*2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN*  
*Phone: +81-3-3268-1193*  
*Fax: +81-3-3268-1197*  
*Emergency telephone : +81-3-3268-1193*  
*This phone number is available only during office hours:*  
*9am to 5:30pm (Japan time)*

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*
- **Information concerning particular hazards for human and environment:**  
*The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.*
- **Classification system:**  
*The classification is according to the EU Regulation 1272/2008/EC, and extended by company and literature data.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Not applicable.*
- **Hazard pictograms** *Not applicable.*
- **Signal word** *Not applicable.*
- **Hazard-determining components of labelling:** *Not applicable.*
- **Hazard statements** *Not applicable.*
- **Precautionary statements** *Not applicable.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· **Composition:**

CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	26,0%
CAS: 1319-41-1 EINECS: 215-289-0	Saponite	23,0%
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	18,0%

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Trade name:

		(Contd. of page 1)
CAS: 1332-37-2 EINECS: 215-570-8	Iron oxide	13,64%
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes, microcryst.	7,0%
CAS: 9004-32-4	carboxymethyl cellulose, sodium salt	6,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	3,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate, pure substance with a Community workplace exposure limit	3,0%
CAS: 6410-26-0 EINECS: 229-096-4	4-[(2-chlorophenyl)azo]-3-hydroxy-N-phenylnaphthalene-2-carboxamide	0,15%
CAS: 2512-29-0 EINECS: 219-730-8	2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide	0,15%
CAS: 1333-86-4 EINECS: 215-609-9	carbon black substance with a Community workplace exposure limit	0,06%

· **Remark :** All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

#### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Seek medical treatment.  
Never give anything by mouth to an unconscious person.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

#### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

#### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.

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Trade name:

Avoid contact with skin.

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· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Avoid contact with eyes and skin.

For the general occupational hygienic measures refer to Section 8.

· **Information about fire - and explosion protection:** Normal measures for preventive fire protection.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Store only in the original receptacle.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidising agents.

· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**1332-58-7 Kaolin (18,0%)**

WEL (Great Britain) Long-term value: 2 mg/m<sup>3</sup>

**13463-67-7 titanium dioxide (3,0%)**

AGW (Germany) Long-term value: 1,25\* 10\*\* mg/m<sup>3</sup>

2(II); \*alveolengängig \*\*einstaubbar; AGS, DFG

WEL (Great Britain) Long-term value: 10\* 4\*\* mg/m<sup>3</sup>

\*total inhalable \*\*respirable

VME (France) Long-term value: 10 mg/m<sup>3</sup>

**557-05-1 zinc distearate, pure (3,0%)**

WEL (Great Britain) Short-term value: 20\* mg/m<sup>3</sup>Long-term value: 10\* 4\*\* mg/m<sup>3</sup>

\*inhalable dust \*\*respirable dust

VME (France) Long-term value: 10 mg/m<sup>3</sup>

**1333-86-4 carbon black (0,06%)**

WEL (Great Britain) Short-term value: 7 mg/m<sup>3</sup>Long-term value: 3,5 mg/m<sup>3</sup>VME (France) Long-term value: 3,5 mg/m<sup>3</sup>

· **DNELs:** Not applicable.

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Trade name:

(Contd. of page 3)

- PNECs: Not applicable.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**
- **Appropriate engineering controls** See Section 7 for information about design of technical facilities.
- **Personal protective equipment**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**  
Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
- Form: Solid
- Colour: Brown
- **Odour:** Odourless
- **Odour threshold:** Data not available.
- **pH-value:** Data not available.
- **Change in condition:**
- Melting point/Melting range: Data not available.
- Freezing point: Data not available.
- Boiling point/Boiling range: Data not available.
- **Flash point:** Data not available.
- **Flammability (solid, gaseous):** Data not available.
- **Auto-ignition temperature:** Data not available.

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Trade name:

(Contd. of page 4)

· <b>Decomposition temperature:</b>	Data not available.
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits</b>	
Lower:	Data not available.
Upper:	Data not available.
· <b>Oxidizing properties:</b>	Data not available.
· <b>Vapour pressure:</b>	Data not available.
· <b>Density:</b>	Data not available.
· <b>Relative density:</b>	Data not available.
· <b>Vapour density:</b>	Data not available.
· <b>Evaporation rate:</b>	Data not available.
· <b>Solubility in / Miscibility with water:</b>	Data not available.
· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
· <b>Viscosity:</b>	
Dynamic:	Data not available.
Kinematic:	Data not available.
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:****13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**63231-60-7 Paraffin waxes and Hydrocarbon waxes,microcryst.**

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3600 mg/kg (rabbit)

**9004-32-4 carboxymethyl cellulose, sodium salt**

Oral	LD50	27000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

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<b>Trade name:</b>	
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<b>557-04-0 magnesium distearate, pure</b>	
Oral	LD50 >2000 mg/kg (rat)
<b>557-05-1 zinc distearate, pure</b>	
Oral	LD50 >10000 mg/kg (mouse) >10000 mg/kg (rat)
<b>1333-86-4 carbon black</b>	
Oral	LD50 >8000 mg/kg (rat)
Dermal	LD50 >3000 mg/kg (rabbit)
<ul style="list-style-type: none"> <li>· <b>Skin corrosion/irritation</b> Based on available data, the classification criteria are not met.</li> <li>· <b>Serious eye damage/irritation</b> Based on available data, the classification criteria are not met.</li> <li>· <b>Respiratory or skin sensitisation</b> Based on available data, the classification criteria are not met.</li> <li>· <b>Germ cell mutagenicity</b> Based on available data, the classification criteria are not met.</li> <li>· <b>Carcinogenicity</b> Based on available data, the classification criteria are not met.</li> <li>· <b>Reproductive toxicity</b> Based on available data, the classification criteria are not met.</li> <li>· <b>STOT-single exposure</b> Based on available data, the classification criteria are not met.</li> <li>· <b>STOT-repeated exposure</b> Based on available data, the classification criteria are not met.</li> <li>· <b>Aspiration hazard</b> Based on available data, the classification criteria are not met.</li> </ul>	
<b>SECTION 12: Ecological information</b>	
<ul style="list-style-type: none"> <li>· <b>12.1 Toxicity</b></li> <li>· <b>Aquatic toxicity:</b> No further relevant information available.</li> <li>· <b>12.2 Persistence and degradability</b> No further relevant information available.</li> <li>· <b>12.3 Bioaccumulative potential</b> No further relevant information available.</li> <li>· <b>12.4 Mobility in soil</b> No further relevant information available.</li> <li>· <b>12.5 Results of PBT and vPvB assessment</b></li> <li>· <b>PBT:</b> Not applicable.</li> <li>· <b>vPvB:</b> Not applicable.</li> <li>· <b>12.6 Other adverse effects</b> No further relevant information available.</li> <li>· <b>12.7 Additional ecological information:</b></li> <li>· <b>General notes:</b> Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.</li> </ul>	
<b>SECTION 13: Disposal considerations</b>	
<ul style="list-style-type: none"> <li>· <b>13.1 Waste treatment methods</b></li> <li>· <b>Recommendation:</b> Smaller quantities can be disposed of with household waste.</li> <li>· <b>Uncleaned packaging</b></li> <li>· <b>Recommendation:</b> Disposal must be made according to official regulations.</li> </ul>	
<b>SECTION 14: Transport information</b>	
<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR,RID,ADN, IMDG, IATA</b> <span style="float: right;">Not applicable.</span></li> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR,RID,ADN, IMDG, IATA</b> <span style="float: right;">Not applicable.</span></li> </ul>	
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Trade name:

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- **14.3 Transport hazard class(es)**
- **ADR,RID,ADN, IMDG, IATA**
- **Class** Not applicable.
- **14.4 Packing group**
- **ADR,RID,ADN, IMDG, IATA** Not applicable.
- **14.5 Environmental hazards**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **MAK(German Maximum Workplace Concentration)**

13463-67-7	titanium dioxide	3A
1333-86-4	carbon black	3B

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**

- **SVHC Candidate List of REACH Regulation Annex XIV Authorisation**

None of the ingredients is listed.

- **REACH Regulation Annex XVII Restriction**
- **See Section 16 for information about restriction of use.**

None of the ingredients is listed.

- **REACH Regulation Annex XIV Authorisation List**

None of the ingredients is listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY :**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

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Regulation(EC) No. 1907/2006, 1272/2008

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Revision 10.10.2020

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name: Color lead (Deep Fuchsia) for Zensations MP**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Drawing
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
This phone number is available only during office hours:  
9am to 5:30pm (Japan time)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **Information concerning particular hazards for human and environment:**  
The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.
- **Classification system:**  
The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable
- **Hazard-determining components of labelling:** Not applicable
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- <b>Composition:</b>		
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	47,0%
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	28,0%
CAS: 9004-32-4	Carboxymethylcellulose Sodium	8,0%

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Trade name:

		(Contd. of page 1)
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes, microcryst.	7,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	4,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate substance with a Community workplace exposure limit	3,0%
CAS: 6410-26-0 EINECS: 229-096-4	4-[(2-chlorophenyl)azo]-3-hydroxy-N-phenyl-naphthalene-2-carboxamide	1,5%
CAS: 5281-04-9 EINECS: 226-109-5	calcium 3-hydroxy-4-[(4-methyl-2-sulphonatophenyl)azo]-2-naphthoate	1,5%

**Remark:**

All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

calcium 3-hydroxy-4-[(4-methyl-2-sulphonatophenyl)azo]-2-naphthoate (CAS No.5281-04-9)  
Synonym: C.I. Pigment Red 57:1

**SECTION 4: First aid measures****4.1 Description of first aid measures**

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:**

Wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Rinse out mouth with water.

Never give anything by mouth to an unconscious person.

Seek medical treatment.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

**5.3 Advice for firefighters****Protective equipment:**

Wear fully protective suit.

Mouth respiratory protective device.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes.

Avoid contact with skin.

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Trade name:

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- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with skin and eyes.  
For the general occupational hygienic measures refer to section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities:**  
**Requirements to be met by storerooms and receptacles:** Store in a cool location.  
**Information about storage in one common storage facility:** Store away from foodstuffs.  
**Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Ingredients with limit values that require monitoring at the workplace:

<b>1332-58-7 Kaolin (47,0%)</b>	
WEL (Great Britain) Long-term value: 2 mg/m <sup>3</sup>	
<b>13463-67-7 titanium dioxide (4,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig**einstaubbar; AGS, DFG
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Long-term value: 10* 4*** mg/m <sup>3</sup> *total inhalable **respirable
<b>557-05-1 zinc distearate (3,0%)</b>	
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4*** mg/m <sup>3</sup> *inhalable dust **respirable dust

- **DNELs:** Data not available
- **PNECs:** Data not available
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**  
Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:  
· **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.
- **Personal protective equipment:**  
· **Respiratory protection:** Suitable respiratory protective device recommended.

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Trade name:

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· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

· **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **Appearance:**

· <b>Form:</b>	Solid
· <b>Colour:</b>	Raspberry Delite
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Data not available.

· **pH-value:** Data not available

· **Change in condition**

· <b>Melting point/Melting range:</b>	Data not available.
· <b>Boiling point/Boiling range:</b>	Data not available
· <b>Freezing point:</b>	Data not available

· **Flash point:** Data not available

· **Flammability (solid, gaseous):** Date not available.

· **Auto-Ignition temperature:** Data not available

· **Decomposition temperature:** Date not available.

· **Self-igniting:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

· <b>Lower:</b>	Data not available.
· <b>Upper:</b>	Data not available.
· <b>Oxidising properties</b>	Data not available

· **Vapour pressure:** Date not available.

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· <b>Density:</b>	Data not available.
· <b>Relative density</b>	Data not available.
· <b>Vapour density</b>	Data not available.
· <b>Evaporation rate</b>	Data not available.

· <b>Solubility in / Miscibility with water:</b>	Data not available
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· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
---	---------------------

· <b>Viscosity:</b>	
<b>Dynamic:</b>	Data not available
<b>Kinematic:</b>	Data not available

· <b>9.2 Other information</b>	No further relevant information available.
--------------------------------	--

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specification.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**9004-32-4 Carboxymethylcellulose Sodium**

Oral	LD50	> 27000 mg/kg (mouse) 27000 mg/kg (rat) > 27000 mg/kg (rabbit)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-05-1 zinc distearate**

Oral	LD50	> 10000 mg/kg (mouse) > 10000 mg/kg (rat)
------	------	--

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

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· **Aspiration hazard:** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |  |
|--|--|
| · <b>14.1 UN-Number</b>  |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.2 UN proper shipping name</b>  |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.3 Transport hazard class(es)</b>   |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   |  |
| · <b>Class</b>   | Not applicable                                       |
| · <b>14.4 Packing group</b>  |  |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.5 Environmental hazards</b>  | Not applicable.                                      |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable.                                      |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                                      |
| · <b>14.8 Transport/Additional information:</b>                                  | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>  | -  |

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**SECTION 15: Regulatory information**

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **MAK (German Maximum Workplace Concentration)**

13463-67-7	titanium dioxide	3A
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· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **National regulations:**

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **Other regulations, limitations and prohibitive regulations**

· **SVHC Candidate List of REACH Regulation Annex XIV Authorisation**

None of the ingredients is listed.

· **REACH Regulation Annex XVII Restriction**

See Section 16 for information about restriction of use.

None of the ingredients is listed.

· **REACH Regulation Annex XIV Authorization List**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

\*\*\*\*\*

End of document

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name: Color lead (Green) for Zensations MP**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture: Drawing**
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
This phone number is available only during office hours:  
9am to 5:30pm (Japan time)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **Information concerning particular hazards for human and environment:**  
The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.
- **Classification system:**  
The classification is according to the EU Regulation 1272/2008/EC, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008 Not applicable.**
- **Hazard pictograms Not applicable.**
- **Signal word Not applicable.**
- **Hazard-determining components of labelling: Not applicable.**
- **Hazard statements Not applicable.**
- **Precautionary statements Not applicable.**
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT: Not applicable.**
- **vPvB: Not applicable.**

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description: Mixture of the substances listed below with nonhazardous additions.**

· **Composition:**

CAS: 1319-41-1 EINECS: 215-289-0	Saponite	30,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate, pure substance with a Community workplace exposure limit	26,0%
CAS: 9004-32-4	carboxymethyl cellulose, sodium salt	11,0%

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Trade name:

		(Contd. of page 1)
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	10,0%
CAS: 1328-53-6 EINECS: 215-524-7	polychloro copper phthalocyanine	9,0%
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes,microcryst.	6,0%
CAS: 9000-01-5 EINECS: 232-519-5	gum arabic	4,0%
CAS: 2512-29-0 EINECS: 219-730-8	2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide	2,5%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	1,5%

· Remark : All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Seek medical treatment.  
Never give anything by mouth to an unconscious person.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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Trade name:

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- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with eyes and skin.  
For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

<b>557-05-1 zinc distearate, pure (26,0%)</b>	
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
<b>1332-58-7 Kaolin (10,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (1,5%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig**einstaubbar; AGS, DFG
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
VME (France)	Long-term value: 10 mg/m <sup>3</sup>

· **DNELs:** Not applicable.

· **PNECs:** Not applicable.

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**

· **Appropriate engineering controls** See Section 7 for information about design of technical facilities.

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Trade name:

(Contd. of page 3)

- **Personal protective equipment**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

· <b>Form:</b>	Solid
· <b>Colour:</b>	Green
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Data not available.

- **pH-value:** Data not available.

- **Change in condition:**

· <b>Melting point/Melting range:</b>	Data not available.
· <b>Freezing point:</b>	Data not available.
· <b>Boiling point/Boiling range:</b>	Data not available.

- **Flash point:** Data not available.

- **Flammability (solid, gaseous):** Data not available.

- **Auto-ignition temperature:** Data not available.

- **Decomposition temperature:** Data not available.

- **Self-igniting:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits**

· <b>Lower:</b>	Data not available.
· <b>Upper:</b>	Data not available.

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Trade name:

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· <b>Oxidizing properties:</b>	Data not available.
· <b>Vapour pressure:</b>	Data not available.
· <b>Density:</b>	Data not available.
· <b>Relative density:</b>	Data not available.
· <b>Vapour density:</b>	Data not available.
· <b>Evaporation rate:</b>	Data not available.
· <b>Solubility in / Miscibility with water:</b>	Data not available.
· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Data not available.
<b>Kinematic:</b>	Data not available.
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:**

#### 13463-67-7 titanium dioxide

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

#### 63231-60-7 Paraffin waxes and Hydrocarbon waxes, microcryst.

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3600 mg/kg (rabbit)

#### 9000-01-5 gum arabic

Oral	LD50	>16000 mg/kg (mouse)
		>16000 mg/kg (rat)
		>8000 mg/kg (rabbit)

#### 9004-32-4 carboxymethyl cellulose, sodium salt

Oral	LD50	27000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

#### 557-05-1 zinc distearate, pure

Oral	LD50	>10000 mg/kg (mouse)
		>10000 mg/kg (rat)

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Trade name:

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**1328-53-6 polychloro copper phthalocyanine**

Oral	LD50	>5000 mg/kg (rat)
------	------	-------------------

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |  |                 |
|--|-----------------|
| - <b>14.1 UN-Number</b>                  |                 |
| - <b>ADR,RID,ADN, IMDG, IATA</b>         | Not applicable. |
| - <b>14.2 UN proper shipping name</b>    |                 |
| - <b>ADR,RID,ADN, IMDG, IATA</b>         | Not applicable. |
| - <b>14.3 Transport hazard class(es)</b> |                 |
| - <b>ADR,RID,ADN, IMDG, IATA</b>         |                 |
| - <b>Class</b>                           | Not applicable. |
| - <b>14.4 Packing group</b>              |                 |
| - <b>ADR,RID,ADN, IMDG, IATA</b>         | Not applicable. |

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Trade name:

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- |  |                 |
|--|-----------------|
| · 14.5 Environmental hazards   |                 |
| · Marine pollutant:  | No              |
| · 14.6 Special precautions for user  | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation":   | -               |

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- MAK(German Maximum Workplace Concentration)

13463-67-7 titanium dioxide	3A
-----------------------------	----

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations

- SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

- REACH Regulation Annex XVII Restriction  
See Section 16 for information about restriction of use.

None of the ingredients is listed.

- REACH Regulation Annex XIV Authorisation List

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
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- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

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**Safety Data Sheet**  
*Regulation(EC) No.1907/2006, 1272/2008*

**Printing date 16.06.2021**

**Revision 16.06.2021**

<i>Trade name:</i>
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**Safety Data Sheet**  
Regulation(EC) No.1907/2006, 1272/2008

Printing date 16.06.2021

Revision 16.06.2021

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
  - **Trade name:** *Color lead (Ice Blue) for Zensations MP*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - **Application of the substance / the mixture:** *Drawing*
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
*ZEBRA CO., LTD.*  
*2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN*  
*Phone: +81-3-3268-1193*  
*Fax: +81-3-3268-1197*  
*Emergency telephone : +81-3-3268-1193*  
*This phone number is available only during office hours:*  
*9am to 5:30pm (Japan time)*

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*
  - **Information concerning particular hazards for human and environment:**  
*The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.*
  - **Classification system:**  
*The classification is according to the EU Regulation 1272/2008/EC, and extended by company and literature data.*
- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008** *Not applicable.*
  - **Hazard pictograms** *Not applicable.*
  - **Signal word** *Not applicable.*
  - **Hazard-determining components of labelling:** *Not applicable.*
  - **Hazard statements** *Not applicable.*
  - **Precautionary statements** *Not applicable.*
- **2.3 Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** *Not applicable.*
  - **vPvB:** *Not applicable.*

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
  - **Description:** *Mixture of the substances listed below with nonhazardous additions.*

- **Composition:**

CAS: 557-04-0 EINECS: 209-150-3	<i>magnesium distearate, pure</i>	<i>31,0%</i>
CAS: 1319-41-1 EINECS: 215-289-0	<i>Saponite</i>	<i>28,0%</i>
CAS: 1332-58-7 EC number: 310-194-1	<i>Kaolin substance with a Community workplace exposure limit</i>	<i>18,0%</i>

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Trade name:

		(Contd. of page 1)
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes,microcryst.	8,0%
CAS: 9004-32-4	carboxymethyl cellulose, sodium salt	6,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	5,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate, pure substance with a Community workplace exposure limit	3,0%
CAS: 147-14-8 EINECS: 205-685-1	29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper	0,8%
CAS: 1328-53-6 EINECS: 215-524-7	polychloro copper phthalocyanine	0,2%

· **Remark :** All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

#### SECTION 4: First aid measures

##### · 4.1 Description of first aid measures

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

##### · **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

##### · **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

##### · **After swallowing:**

Rinse out mouth with water.

Seek medical treatment.

Never give anything by mouth to an unconscious person.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

#### SECTION 5: Firefighting measures

##### · 5.1 Extinguishing media

##### · **Suitable extinguishing agents:**

CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

##### · 5.3 Advice for firefighters

##### · **Protective equipment:**

Wear fully protective suit.

Mouth respiratory protective device.

#### SECTION 6: Accidental release measures

##### · 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes.

Avoid contact with skin.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with eyes and skin.  
For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Ingredients with limit values that require monitoring at the workplace:

<b>1332-58-7 Kaolin (18,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (5,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig**einatembar; AGS, DFG
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
<b>557-05-1 zinc distearate, pure (3,0%)</b>	
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
VME (France)	Long-term value: 10 mg/m <sup>3</sup>

- **DNELs:** Not applicable.
- **PNECs:** Not applicable.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**
- **Appropriate engineering controls** See Section 7 for information about design of technical facilities.

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- **Personal protective equipment**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

· <b>Form:</b>	Solid
· <b>Colour:</b>	Light blue
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Data not available.

- **pH-value:** Data not available.

- **Change in condition:**

· <b>Melting point/Melting range:</b>	Data not available.
· <b>Freezing point:</b>	Data not available.
· <b>Boiling point/Boiling range:</b>	Data not available.

- **Flash point:** Data not available.

- **Flammability (solid, gaseous):** Data not available.
- **Auto-ignition temperature:** Data not available.

- **Decomposition temperature:** Data not available.

- **Self-igniting:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits**

· <b>Lower:</b>	Data not available.
· <b>Upper:</b>	Data not available.

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Trade name:

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· <b>Oxidizing properties:</b>	Data not available.
· <b>Vapour pressure:</b>	Data not available.
· <b>Density:</b>	Data not available.
· <b>Relative density:</b>	Data not available.
· <b>Vapour density:</b>	Data not available.
· <b>Evaporation rate:</b>	Data not available.
· <b>Solubility in / Miscibility with water:</b>	Data not available.
· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Data not available.
<b>Kinematic:</b>	Data not available.
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:****13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**63231-60-7 Paraffin waxes and Hydrocarbon waxes, microcryst.**

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3600 mg/kg (rabbit)

**9004-32-4 carboxymethyl cellulose, sodium salt**

Oral	LD50	27000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-04-0 magnesium distearate, pure**

Oral	LD50	>2000 mg/kg (rat)
------	------	-------------------

**557-05-1 zinc distearate, pure**

Oral	LD50	>10000 mg/kg (mouse)
		>10000 mg/kg (rat)

**147-14-8 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper**

Oral	LD50	>2000 mg/kg (rat)
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Trade name:

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**1328-53-6 polychloro copper phthalocyanine**

Oral	LD50	>5000 mg/kg (rat)
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- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**  
**Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**  
· **PBT:** Not applicable.  
· **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**  
· **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**  
· **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging**  
· **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                                    | Not applicable. |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                      | Not applicable. |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b><br>· <b>Class</b> | Not applicable. |
| · <b>14.4 Packing group</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                                | Not applicable. |

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- |  |                 |
|--|-----------------|
| · 14.5 Environmental hazards   |                 |
| · Marine pollutant:  | No              |
| · 14.6 Special precautions for user  | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation":   | -               |

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- MAK(German Maximum Workplace Concentration)

13463-67-7 titanium dioxide	3A
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- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations

- SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

- REACH Regulation Annex XVII Restriction  
See Section 16 for information about restriction of use.

None of the ingredients is listed.

- REACH Regulation Annex XIV Authorisation List

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY :**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

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**Safety data sheet**  
Regulation(EC) No. 1907/2006, 1272/2008

Printing date 11.10.2020

Revision 10.10.2020

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
  - **Trade name:** *Color lead (Lt. Peach) for Zensations MP*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - **Application of the substance / the mixture** *Drawing*
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
*This phone number is available only during office hours:  
9am to 5:30pm (Japan time)*

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*
  - **Information concerning particular hazards for human and environment:**  
*The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.*
  - **Classification system:**  
*The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.*
- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008** *Not applicable*
  - **Hazard pictograms** *Not applicable*
  - **Signal word** *Not applicable*
  - **Hazard-determining components of labelling:** *Not applicable*
  - **Hazard statements** *Not applicable*
  - **Precautionary statements** *Not applicable*
- **2.3 Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** *Not applicable*
  - **vPvB:** *Not applicable*

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
  - **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· <b>Composition:</b>		
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	45,0%
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	30,0%
CAS: 9004-32-4	Carboxymethylcellulose Sodium	10,0%

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Trade name:

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CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes, microcryst.	7,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	5,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate substance with a Community workplace exposure limit	1,5%
CAS: 2512-29-0 EINECS: 219-730-8	2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide	1,5%

**Remark:**

All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide (CAS No.2512-29-0)  
Synonym: Pigment Yellow 1

**SECTION 4: First aid measures****4.1 Description of first aid measures**

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:**

Wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Rinse out mouth with water.

Never give anything by mouth to an unconscious person.

Seek medical treatment.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

**5.3 Advice for firefighters****Protective equipment:**

Wear fully protective suit.

Mouth respiratory protective device.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes.

Avoid contact with skin.

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with skin and eyes.  
For the general occupational hygienic measures refer to section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities:**  
**Requirements to be met by storerooms and receptacles:** Store in a cool location.  
**Information about storage in one common storage facility:** Store away from foodstuffs.  
**Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

##### · **Ingredients with limit values that require monitoring at the workplace:**

<b>1332-58-7 Kaolin (45,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (5,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig**einatembar; AGS, DFG
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
<b>557-05-1 zinc distearate (1,5%)</b>	
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust

- **DNELs:** Data not available
- **PNECs:** Data not available
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**  
· **Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**  
· **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.  
· **Personal protective equipment:**  
· **Respiratory protection:** Suitable respiratory protective device recommended.

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Trade name:

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## Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

## Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

## Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

## Eye protection:



Tightly sealed goggles

## Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

## Appearance:

Form:	Solid
Colour:	Seashell Peach
Odour:	Odourless
Odour threshold:	Data not available.

pH-value: Data not available

## Change in condition

Melting point/Melting range:	Data not available.
Boiling point/Boiling range:	Data not available
Freezing point:	Data not available

Flash point: Data not available

Flammability (solid, gaseous): Date not available.

Auto-Ignition temperature: Data not available

Decomposition temperature: Date not available.

Self-igniting: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

## Explosion limits:

Lower:	Data not available.
Upper:	Data not available.
Oxidising properties	Data not available

Vapour pressure: Date not available.

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Trade name:

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· <b>Density:</b>	Data not available.
· <b>Relative density</b>	Data not available.
· <b>Vapour density</b>	Data not available.
· <b>Evaporation rate</b>	Data not available.
· <b>Solubility in / Miscibility with water:</b>	Data not available.
· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Data not available.
<b>Kinematic:</b>	Data not available.
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specification.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:****13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**9004-32-4 Carboxymethylcellulose Sodium**

Oral	LD50	> 27000 mg/kg (mouse) 27000 mg/kg (rat)
Dermal	LD50	> 27000 mg/kg (rabbit) >2000 mg/kg (rabbit)

**557-05-1 zinc distearate**

Oral	LD50	> 10000 mg/kg (mouse) > 10000 mg/kg (rat)
------	------	--

**2512-29-0 2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide**

Oral	LD50	>10000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.

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Revision 10.10.2020

Trade name:

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- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |  |  |
|--|--|
| · <b>14.1 UN-Number</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                                    | Not applicable                                       |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                      | Not applicable                                       |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b><br>· <b>Class</b> | Not applicable                                       |
| · <b>14.4 Packing group</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                                | Not applicable                                       |
| · <b>14.5 Environmental hazards</b>  | Not applicable.                                      |
| · <b>14.6 Special precautions for user</b>   | Not applicable.                                      |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>               | Not applicable.                                      |
| · <b>14.8 Transport/Additional information:</b>  | Not dangerous according to the above specifications. |

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Trade name:

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- UN "Model Regulation":

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- MAK (German Maximum Workplace Concentration)

13463-67-7 titanium dioxide

3A

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.

- National regulations:

- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

- Other regulations, limitations and prohibitive regulations

- SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

- REACH Regulation Annex XVII Restriction

See Section 16 for information about restriction of use.

None of the ingredients is listed.

- REACH Regulation Annex XIV Authorization List

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

\*\*\*\*\*

End of document

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**Safety Data Sheet**  
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** Color lead (Lt. Pink) for Zensations MP
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Drawing
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
This phone number is available only during office hours:  
9am to 5:30pm (Japan time)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **Information concerning particular hazards for human and environment:**  
The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.
- **Classification system:**  
The classification is according to the EU Regulation 1272/2008/EC, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Not applicable.
- **Hazard pictograms** Not applicable.
- **Signal word** Not applicable.
- **Hazard-determining components of labelling:** Not applicable.
- **Hazard statements** Not applicable.
- **Precautionary statements** Not applicable.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· <b>Composition:</b>		
CAS: 1319-41-1 EINECS: 215-289-0	Saponite	30,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate, pure substance with a Community workplace exposure limit	26,0%
CAS: 9004-32-4	carboxymethyl cellulose, sodium salt	10,0%

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Trade name:

		(Contd. of page 1)
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes,microcryst.	9,0%
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	8,0%
CAS: 6410-26-0 EINECS: 229-096-4	4-[(2-chlorophenyl)azo]-3-hydroxy-N-phenylnaphthalene-2-carboxamide	7,0%
CAS: 9000-01-5 EINECS: 232-519-5	gum arabic	5,0%
CAS: 15793-73-4 EINECS: 239-898-6	4,4'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[2,4-dihydro-5-methyl-2-(p-tolyl)-3H-pyrazol-3-one]	3,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	2,0%

· **Remark :** All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Seek medical treatment.  
Never give anything by mouth to an unconscious person.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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Trade name:

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- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with eyes and skin.  
For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

<b>557-05-1 zinc distearate, pure (26,0%)</b>	
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
<b>1332-58-7 Kaolin (8,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (2,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig**einatembar; AGS, DFG
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
VME (France)	Long-term value: 10 mg/m <sup>3</sup>

- **DNELs:** Not applicable.
- **PNECs:** Not applicable.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**
- **Appropriate engineering controls** See Section 7 for information about design of technical facilities.

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Trade name:

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- **Personal protective equipment**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Solid
<b>Colour:</b>	Pink
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Data not available.

- **pH-value:** Data not available.

- **Change in condition:**

<b>Melting point/Melting range:</b>	Data not available.
<b>Freezing point:</b>	Data not available.
<b>Boiling point/Boiling range:</b>	Data not available.

- **Flash point:** Data not available.

- **Flammability (solid, gaseous):** Data not available.

- **Auto-ignition temperature:** Data not available.

- **Decomposition temperature:** Data not available.

- **Self-igniting:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits**

<b>Lower:</b>	Data not available.
<b>Upper:</b>	Data not available.

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Trade name:

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- <b>Oxidizing properties:</b>	Data not available.
- <b>Vapour pressure:</b>	Data not available.
- <b>Density:</b>	Data not available.
- <b>Relative density:</b>	Data not available.
- <b>Vapour density:</b>	Data not available.
- <b>Evaporation rate:</b>	Data not available.
- <b>Solubility in / Miscibility with water:</b>	Data not available.
- <b>Partition coefficient (n-octanol/water):</b>	Data not available.
- <b>Viscosity:</b>	
<b>Dynamic:</b>	Data not available.
<b>Kinematic:</b>	Data not available.
- <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:****13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**63231-60-7 Paraffin waxes and Hydrocarbon waxes, microcryst.**

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3600 mg/kg (rabbit)

**9000-01-5 gum arabic**

Oral	LD50	>16000 mg/kg (mouse)
		>16000 mg/kg (rat)
		>8000 mg/kg (rabbit)

**9004-32-4 carboxymethyl cellulose, sodium salt**

Oral	LD50	27000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-05-1 zinc distearate, pure**

Oral	LD50	>10000 mg/kg (mouse)
		>10000 mg/kg (rat)

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Revision 16.06.2021

Trade name:

(Contd. of page 5)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                                    | Not applicable. |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                      | Not applicable. |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b><br>· <b>Class</b> | Not applicable. |
| · <b>14.4 Packing group</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                                | Not applicable. |
| · <b>14.5 Environmental hazards</b><br>· <b>Marine pollutant:</b>                              | No              |

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Trade name:

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- |  |                 |
|--|-----------------|
| - 14.6 Special precautions for user  | Not applicable. |
| - 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| - UN "Model Regulation":   | -               |

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- MAK(German Maximum Workplace Concentration)

13463-67-7 titanium dioxide

3A

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations

- SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

- REACH Regulation Annex XVII Restriction

See Section 16 for information about restriction of use.

None of the ingredients is listed.

- REACH Regulation Annex XIV Authorisation List

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

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- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

\*\*\*\*\*

End of document

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**Safety Data Sheet**  
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Printing date 16.06.2021

Revision 16.06.2021

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** *Color lead (Lt Green) for Zensations MP*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** *Drawing*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*ZEBRA CO., LTD.*  
*2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN*  
*Phone:+81-3-3268-1193*  
*Fax:+81-3-3268-1197*  
*Emergency telephone : +81-3-3268-1193*  
*This phone number is available only during office hours:*  
*9am to 5:30pm (Japan time)*

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*
- **Information concerning particular hazards for human and environment:**  
*The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.*
- **Classification system:**  
*The classification is according to the EU Regulation 1272/2008/EC, and extended by company and literature data.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Not applicable.*
- **Hazard pictograms** *Not applicable.*
- **Signal word** *Not applicable.*
- **Hazard-determining components of labelling:** *Not applicable.*
- **Hazard statements** *Not applicable.*
- **Precautionary statements** *Not applicable.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· <b>Composition:</b>		
CAS: 1319-41-1 EINECS: 215-289-0	Saponite	32,0%
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	32,0%
CAS: 9004-32-4	carboxymethyl cellulose, sodium salt	9,0%

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Trade name:

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CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	8,0%
CAS: 2512-29-0 EINECS: 219-730-8	2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide	7,5%
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes,microcryst.	5,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	2,5%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate, pure substance with a Community workplace exposure limit	2,0%
CAS: 1328-53-6 EINECS: 215-524-7	polychloro copper phthalocyanine	2,0%

· **Remark :** All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air: consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Seek medical treatment.  
Never give anything by mouth to an unconscious person.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with eyes and skin.  
For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

<b>1332-58-7 Kaolin (8,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (2,5%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II);*alveolengängig**eintembar; AGS, DFG
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
<b>557-05-1 zinc distearate, pure (2,0%)</b>	
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
VME (France)	Long-term value: 10 mg/m <sup>3</sup>

- **DNELs:** Not applicable.
- **PNECs:** Not applicable.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**
- **Appropriate engineering controls** See Section 7 for information about design of technical facilities.

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- **Personal protective equipment**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

· <b>Form:</b>	Solid
· <b>Colour:</b>	Light green
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Data not available.

- **pH-value:** Data not available.

- **Change in condition:**

· <b>Melting point/Melting range:</b>	Data not available.
· <b>Freezing point:</b>	Data not available.
· <b>Boiling point/Boiling range:</b>	Data not available.

- **Flash point:** Data not available.

- **Flammability (solid, gaseous):** Data not available.

- **Auto-ignition temperature:** Data not available.

- **Decomposition temperature:** Data not available.

- **Self-igniting:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits**

· <b>Lower:</b>	Data not available.
· <b>Upper:</b>	Data not available.

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· <b>Oxidizing properties:</b>	Data not available.
· <b>Vapour pressure:</b>	Data not available.
· <b>Density:</b>	Data not available.
· <b>Relative density:</b>	Data not available.
· <b>Vapour density:</b>	Data not available.
· <b>Evaporation rate:</b>	Data not available.
· <b>Solubility in / Miscibility with water:</b>	Data not available.
· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Data not available.
<b>Kinematic:</b>	Data not available.
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:****13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**63231-60-7 Paraffin waxes and Hydrocarbon waxes,microcryst.**

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3600 mg/kg (rabbit)

**9004-32-4 carboxymethyl cellulose, sodium salt**

Oral	LD50	27000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-04-0 magnesium distearate, pure**

Oral	LD50	>2000 mg/kg (rat)
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**557-05-1 zinc distearate, pure**

Oral	LD50	>10000 mg/kg (mouse)
		>10000 mg/kg (rat)

**1328-53-6 polychloro copper phthalocyanine**

Oral	LD50	>5000 mg/kg (rat)
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Trade name:

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- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                                    | Not applicable. |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                      | Not applicable. |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b><br>· <b>Class</b> | Not applicable. |
| · <b>14.4 Packing group</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                                | Not applicable. |
| · <b>14.5 Environmental hazards</b><br>· <b>Marine pollutant:</b>                              | No              |

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Trade name:

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- |  |                 |
|--|-----------------|
| · 14.6 Special precautions for user  | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation":   | -               |

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- MAK(German Maximum Workplace Concentration)

13463-67-7 titanium dioxide	3A
-----------------------------	----

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations

- SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

- REACH Regulation Annex XVII Restriction  
See Section 16 for information about restriction of use.

None of the ingredients is listed.

- REACH Regulation Annex XIV Authorisation List

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY :**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

\*\*\*\*\*  
End of document

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** *Color lead (Orange) for Zensations MP*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** *Drawing*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*ZEBRA CO., LTD.*  
*2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN*  
*Phone: +81-3-3268-1193*  
*Fax: +81-3-3268-1197*  
*Emergency telephone : +81-3-3268-1193*  
*This phone number is available only during office hours:*  
*9am to 5:30pm (Japan time)*

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*
- **Information concerning particular hazards for human and environment:**  
*The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.*
- **Classification system:**  
*The classification is according to the EU Regulation 1272/2008/EC, and extended by company and literature data.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Not applicable.*
- **Hazard pictograms** *Not applicable.*
- **Signal word** *Not applicable.*
- **Hazard-determining components of labelling:** *Not applicable.*
- **Hazard statements** *Not applicable.*
- **Precautionary statements** *Not applicable.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· **Composition:**

CAS: 1319-41-1 EINECS: 215-289-0	Saponite	31,0%
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	31,0%
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	10,0%

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Trade name:

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CAS: 9004-32-4	carboxymethyl cellulose, sodium salt	9,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate, pure substance with a Community workplace exposure limit	6,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	4,0%
CAS: 15793-73-4 EINECS: 239-898-6	4,4'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[2,4-dihydro-5-methyl-2-(p-tolyl)-3H-pyrazol-3-one]	4,0%
CAS: 2512-29-0 EINECS: 219-730-8	2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide	3,0%
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes,microcryst.	2,0%

· **Remark :** All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

#### SECTION 4: First aid measures

##### · 4.1 Description of first aid measures

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth with water.

Seek medical treatment.

Never give anything by mouth to an unconscious person.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

#### SECTION 5: Firefighting measures

##### · 5.1 Extinguishing media

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

##### · 5.3 Advice for firefighters

· **Protective equipment:**

Wear fully protective suit.

Mouth respiratory protective device.

#### SECTION 6: Accidental release measures

##### · 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes.

Avoid contact with skin.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Pick up mechanically.

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Trade name:

Dispose contaminated material as waste according to item 13.

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- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with eyes and skin.  
For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

<b>1332-58-7 Kaolin (10,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>557-05-1 zinc distearate, pure (6,0%)</b>	
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (4,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig **einatembar; AGS, DFG
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
VME (France)	Long-term value: 10 mg/m <sup>3</sup>

- **DNELs:** Not applicable.
- **PNECs:** Not applicable.

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**
- **Appropriate engineering controls** See Section 7 for information about design of technical facilities.
- **Personal protective equipment**
- **Respiratory protection:** Suitable respiratory protective device recommended.

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Trade name:

· **Protection of hands:**

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Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

· **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form:	Solid
Colour:	Orange
Odour:	Odourless
Odour threshold:	Data not available.

· **pH-value:** Data not available.· **Change in condition:**

Melting point/Melting range:	Data not available.
Freezing point:	Data not available.
Boiling point/Boiling range:	Data not available.

· **Flash point:** Data not available.· **Flammability (solid, gaseous):** Data not available.· **Auto-ignition temperature:** Data not available.· **Decomposition temperature:** Data not available.· **Self-igniting:** Product is not selfigniting.· **Explosive properties:** Product does not present an explosion hazard.· **Explosion limits**

Lower: Data not available.

Upper: Data not available.

· **Oxidizing properties:** Data not available.· **Vapour pressure:** Data not available.

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Trade name:

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· <b>Density:</b>	Data not available.
· <b>Relative density:</b>	Data not available.
· <b>Vapour density:</b>	Data not available.
· <b>Evaporation rate:</b>	Data not available.
· <b>Solubility in / Miscibility with water:</b>	Data not available.
· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Data not available.
<b>Kinematic:</b>	Data not available.
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

**13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**63231-60-7 Paraffin waxes and Hydrocarbon waxes, microcryst.**

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3600 mg/kg (rabbit)

**9004-32-4 carboxymethyl cellulose, sodium salt**

Oral	LD50	27000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-04-0 magnesium distearate, pure**

Oral	LD50	>2000 mg/kg (rat)
------	------	-------------------

**557-05-1 zinc distearate, pure**

Oral	LD50	>10000 mg/kg (mouse)
		>10000 mg/kg (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Based on available data, the classification criteria are not met.

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- **Reproductive toxicity**  
Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
Based on available data, the classification criteria are not met.

#### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

#### SECTION 14: Transport information

- |   |                 |
|---|-----------------|
| · <b>14.1 UN-Number</b>   | Not applicable. |
| · <b>ADR,RID,ADN, IMDG, IATA</b>  | Not applicable. |
| · <b>14.2 UN proper shipping name</b>   | Not applicable. |
| · <b>ADR,RID,ADN, IMDG, IATA</b>  | Not applicable. |
| · <b>14.3 Transport hazard class(es)</b>  | Not applicable. |
| · <b>ADR,RID,ADN, IMDG, IATA</b>  | Not applicable. |
| · <b>Class</b>  | Not applicable. |
| · <b>14.4 Packing group</b>   | Not applicable. |
| · <b>ADR,RID,ADN, IMDG, IATA</b>  | Not applicable. |
| · <b>14.5 Environmental hazards</b>   | No              |
| · <b>Marine pollutant:</b>  | No              |
| · <b>14.6 Special precautions for user</b>  | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |

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Trade name:

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UN "Model Regulation": -

**SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

MAK(German Maximum Workplace Concentration)

13463-67-7 titanium dioxide

3A

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations

SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

REACH Regulation Annex XVII Restriction

See Section 16 for information about restriction of use.

None of the ingredients is listed.

REACH Regulation Annex XIV Authorisation List

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

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**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

\*\*\*\*\*  
End of document

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** *Color lead (Peach) for Zensations MP*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** *Drawing*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*ZEBRA CO., LTD.*  
*2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN*  
*Phone: +81-3-3268-1193*  
*Fax: +81-3-3268-1197*  
*Emergency telephone : +81-3-3268-1193*  
*This phone number is available only during office hours:*  
*9am to 5:30pm (Japan time)*

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*
- **Information concerning particular hazards for human and environment:**  
*The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.*
- **Classification system:**  
*The classification is according to the EU Regulation 1272/2008/EC, and extended by company and literature data.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Not applicable.*
- **Hazard pictograms** *Not applicable.*
- **Signal word** *Not applicable.*
- **Hazard-determining components of labelling:** *Not applicable.*
- **Hazard statements** *Not applicable.*
- **Precautionary statements** *Not applicable.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· **Composition:**

CAS: 1319-41-1 EINECS: 215-289-0	Saponite	30,0%
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	30,0%
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	15,0%

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Trade name:

		(Contd. of page 1)
CAS: 9004-32-4	carboxymethyl cellulose, sodium salt	10,0%
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes,microcryst.	7,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	5,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate, pure substance with a Community workplace exposure limit	1,5%
CAS: 2512-29-0 EINECS: 219-730-8	2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide	1,5%

**Remark :** All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Seek medical treatment.  
Never give anything by mouth to an unconscious person.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.

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Trade name:

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- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with eyes and skin.  
For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**  
· **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

<b>1332-58-7 Kaolin (15,0%)</b>	
WEL (Great Britain)	Long-term value: 2 mg/m <sup>3</sup>
<b>13463-67-7 titanium dioxide (5,0%)</b>	
AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II);*alveolengängig**einstaubbar; AGS, DFG
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
VME (France)	Long-term value: 10 mg/m <sup>3</sup>
<b>557-05-1 zinc distearate, pure (1,5%)</b>	
WEL (Great Britain)	Short-term value: 20* mg/m <sup>3</sup> Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
VME (France)	Long-term value: 10 mg/m <sup>3</sup>

- **DNELs:** Not applicable.
- **PNECs:** Not applicable.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**  
· **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**  
· **Appropriate engineering controls** See Section 7 for information about design of technical facilities.
- **Personal protective equipment**  
· **Respiratory protection:** Suitable respiratory protective device recommended.

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Trade name:

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## Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

## Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

## Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

## Eye protection:



Tightly sealed goggles

## Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

## General Information

## Appearance:

Form:	Solid
Colour:	Skin yellow
Odour:	Odourless
Odour threshold:	Data not available.

pH-value: Data not available.

## Change in condition:

Melting point/Melting range:	Data not available.
Freezing point:	Data not available.
Boiling point/Boiling range:	Data not available.

Flash point: Data not available.

Flammability (solid, gaseous): Data not available.  
Auto-ignition temperature: Data not available.

Decomposition temperature: Data not available.

Self-igniting: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

## Explosion limits

Lower:	Data not available.
Upper:	Data not available.
Oxidizing properties:	Data not available.

Vapour pressure: Data not available.

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Trade name:

(Contd. of page 4)

· <b>Density:</b>	Data not available.
· <b>Relative density:</b>	Data not available.
· <b>Vapour density:</b>	Data not available.
· <b>Evaporation rate:</b>	Data not available.
· <b>Solubility in / Miscibility with water:</b>	Data not available.
· <b>Partition coefficient (n-octanol/water):</b>	Data not available.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Data not available.
· <b>Kinematic:</b>	Data not available.
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

**13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**63231-60-7 Paraffin waxes and Hydrocarbon waxes, microcryst.**

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3600 mg/kg (rabbit)

**9004-32-4 carboxymethyl cellulose, sodium salt**

Oral	LD50	27000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

**557-04-0 magnesium distearate, pure**

Oral	LD50	>2000 mg/kg (rat)
------	------	-------------------

**557-05-1 zinc distearate, pure**

Oral	LD50	>10000 mg/kg (mouse)
		>10000 mg/kg (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Based on available data, the classification criteria are not met.

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Trade name:

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- **Reproductive toxicity**  
Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                                    | Not applicable. |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                      | Not applicable. |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b><br>· <b>Class</b> | Not applicable. |
| · <b>14.4 Packing group</b><br>· <b>ADR,RID,ADN, IMDG, IATA</b>                                | Not applicable. |
| · <b>14.5 Environmental hazards</b><br>· <b>Marine pollutant:</b>                              | No              |
| · <b>14.6 Special precautions for user</b>   | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>          | Not applicable. |

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Printing date 16.06.2021

Revision 16.06.2021

Trade name:

(Contd. of page 6)

- UN "Model Regulation": -

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- MAK(German Maximum Workplace Concentration)

13463-67-7 titanium dioxide

3A

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.

- National regulations:

- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

- Other regulations, limitations and prohibitive regulations

- SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

- REACH Regulation Annex XVII Restriction

See Section 16 for information about restriction of use.

None of the ingredients is listed.

- REACH Regulation Annex XIV Authorisation List

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

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- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

\*\*\*\*\*

End of document

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**Safety data sheet**  
Regulation(EC) No. 1907/2006, 1272/2008

Printing date 11.10.2020

Revision 10.10.2020

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** *Color lead (Pink) for Zensations MP*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** *Drawing*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
Phone: +81-3-3268-1193  
Fax: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
*This phone number is available only during office hours:  
9am to 5:30pm (Japan time)*

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*
- **Information concerning particular hazards for human and environment:**  
*The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.*
- **Classification system:**  
*The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Not applicable*
- **Hazard pictograms** *Not applicable*
- **Signal word** *Not applicable*
- **Hazard-determining components of labelling:** *Not applicable*
- **Hazard statements** *Not applicable*
- **Precautionary statements** *Not applicable*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable*
- **vPvB:** *Not applicable*

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· **Composition:**

CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	48,0%
CAS: 557-04-0 EINECS: 209-150-3	magnesium distearate, pure	31,9%
CAS: 63231-60-7 EINECS: 264-038-1	Paraffin waxes and Hydrocarbon waxes, microcryst.	7,0%

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Printing date 11.10.2020

Revision 10.10.2020

Trade name:

		(Contd. of page 1)
CAS: 9004-32-4	Carboxymethylcellulose Sodium	6,0%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	3,0%
CAS: 557-05-1 EINECS: 209-151-9	zinc distearate substance with a Community workplace exposure limit	3,0%
CAS: 5281-04-9 EINECS: 226-109-5	calcium 3-hydroxy-4-[(4-methyl-2-sulphonatophenyl)azo]-2-naphthoate	0,5%
CAS: 6410-26-0 EINECS: 229-096-4	4-[(2-chlorophenyl)azo]-3-hydroxy-N-phenyl-naphthalene-2-carboxamide	0,4%
CAS: 2512-29-0 EINECS: 219-730-8	2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide	0,2%

**Remark:**

All ingredients listed above are not classified according to EU Regulation 1272/2008/EC.

calcium 3-hydroxy-4-[(4-methyl-2-sulphonatophenyl)azo]-2-naphthoate (CAS No.5281-04-9)  
Synonym: C.I. Pigment Red 57:1

2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide (CAS No.2512-29-0)  
Synonym: Pigment Yellow 1

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Never give anything by mouth to an unconscious person.  
Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.

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- Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
  - **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
  - **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Avoid contact with skin and eyes.  
For the general occupational hygienic measures refer to section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities:**  
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.  
- **Information about storage in one common storage facility:** Store away from foodstuffs.  
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**- **8.1 Control parameters**- **Ingredients with limit values that require monitoring at the workplace:****1332-58-7 Kaolin (48,0%)**WEL (Great Britain) Long-term value: 2 mg/m<sup>3</sup>**13463-67-7 titanium dioxide (3,0%)**AGW (Germany) Long-term value: 1,25\* 10\*\* mg/m<sup>3</sup>  
2(II):\*alveolengängig\*\*einatembar; AGS, DFGVME (France) Long-term value: 10 mg/m<sup>3</sup>WEL (Great Britain) Long-term value: 10\* 4\*\* mg/m<sup>3</sup>  
\*total inhalable \*\*respirable**557-05-1 zinc distearate (3,0%)**VME (France) Long-term value: 10 mg/m<sup>3</sup>WEL (Great Britain) Short-term value: 20\* mg/m<sup>3</sup>  
Long-term value: 10\* 4\*\* mg/m<sup>3</sup>  
\*inhalable dust \*\*respirable dust

- **DNELs:** Data not available
- **PNECs:** Data not available

- **Additional information:** The lists valid during the making were used as basis.- **8.2 Exposure controls**- **Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**

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- **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.
- **Personal protective equipment:**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

- **Environmental exposure controls:**  
Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · Appearance:

- |                         |                     |
|-------------------------|---------------------|
| <b>Form:</b>            | Solid               |
| <b>Colour:</b>          | Bubble Gum Pink     |
| <b>Odour:</b>           | Odourless           |
| <b>Odour threshold:</b> | Data not available. |

- |                  |                    |
|------------------|--------------------|
| <b>pH-value:</b> | Data not available |
|------------------|--------------------|

##### · Change in condition

- |                                     |                     |
|-------------------------------------|---------------------|
| <b>Melting point/Melting range:</b> | Data not available. |
| <b>Boiling point/Boiling range:</b> | Data not available  |
| <b>Freezing point:</b>              | Data not available  |

- |                     |                    |
|---------------------|--------------------|
| <b>Flash point:</b> | Data not available |
|---------------------|--------------------|

- |                                       |                     |
|---------------------------------------|---------------------|
| <b>Flammability (solid, gaseous):</b> | Date not available. |
|---------------------------------------|---------------------|

- |                                   |                    |
|-----------------------------------|--------------------|
| <b>Auto-Ignition temperature:</b> | Data not available |
|-----------------------------------|--------------------|

- |                                   |                     |
|-----------------------------------|---------------------|
| <b>Decomposition temperature:</b> | Date not available. |
|-----------------------------------|---------------------|

- |                       |                              |
|-----------------------|------------------------------|
| <b>Self-igniting:</b> | Product is not selfigniting. |
|-----------------------|------------------------------|

- |                              |   |
|------------------------------|---|
| <b>Explosive properties:</b> | Product does not present an explosion hazard. |
|------------------------------|---|

##### · Explosion limits:

- |               |                     |
|---------------|---------------------|
| <b>Lower:</b> | Data not available. |
| <b>Upper:</b> | Data not available. |

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- <b>Oxidising properties</b>	Data not available
- <b>Vapour pressure:</b>	Date not available.
- <b>Density:</b>	Data not available.
- <b>Relative density</b>	Data not available.
- <b>Vapour density</b>	Date not available.
- <b>Evaporation rate</b>	Data not available
- <b>Solubility in / Miscibility with water:</b>	Data not available
- <b>Partition coefficient (n-octanol/water):</b>	Data not available.
- <b>Viscosity:</b>	
<b>Dynamic:</b>	Data not available
<b>Kinematic:</b>	Data not available
- <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No decomposition if used according to specification.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:****13463-67-7 titanium dioxide**

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6,82 mg/l (rat)

**9004-32-4 Carboxymethylcellulose Sodium**

Oral	LD50	> 27000 mg/kg (mouse) 27000 mg/kg (rat)
Dermal	LD50	> 27000 mg/kg (rabbit) >2000 mg/kg (rabbit)

**557-05-1 zinc distearate**

Oral	LD50	> 10000 mg/kg (mouse) > 10000 mg/kg (rat)
------	------	--

**2512-29-0 2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide**

Oral	LD50	>10000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

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- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |  |  |
|--|--|
| · <b>14.1 UN-Number</b>  | Not applicable                                       |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.2 UN proper shipping name</b>  | Not applicable                                       |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.3 Transport hazard class(es)</b>   | Not applicable                                       |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>Class</b>   | Not applicable                                       |
| · <b>14.4 Packing group</b>  | Not applicable                                       |
| · <b>ADR,RID,ADN, IMDG, IATA</b>   | Not applicable                                       |
| · <b>14.5 Environmental hazards</b>  | Not applicable.                                      |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable.                                      |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                                      |
| · <b>14.8 Transport/Additional information:</b>                                  | Not dangerous according to the above specifications. |

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Trade name:

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· UN "Model Regulation":

**SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· MAK (German Maximum Workplace Concentration)

13463-67-7 titanium dioxide

3A

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· National regulations:

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Other regulations, limitations and prohibitive regulations

· SVHC Candidate List of REACH Regulation Annex XIV Authorisation

None of the ingredients is listed.

· REACH Regulation Annex XVII Restriction

See Section 16 for information about restriction of use.

None of the ingredients is listed.

· REACH Regulation Annex XIV Authorization List

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

\*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

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· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

\*\*\*\*\*

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