

We create chemistry

00523-9503

Safety Data Sheet

Mearlin® Super Bronze 9250Z

Revision date : 2020/02/18

Page: 1/9

Version: 4.0

(30322670/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Mearlin® Super Bronze 9250Z

Recommended use of the chemical and restriction on use

Recommended use*: Colorants for industrial use

Recommended use*: pigment

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF Colors & Effects USA LLC

100 Park Avenue

Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: metal oxides

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

Safety Data Sheet**Mearlin® Super Bronze 9250Z**

Revision date : 2020/02/18

Version: 4.0

Page: 2/9

(30322670/SDS_GEN_US/EN)

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition / Information on Ingredients**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

Mica-group minerals

CAS Number: 12001-26-2

Content (W/W): ≥ 50.0 - $< 75.0\%$

Synonym: Mica group minerals

Iron oxide

CAS Number: 1309-37-1

Content (W/W): ≥ 25.0 - $< 50.0\%$

Synonym: C.I. 77015

4. First-Aid Measures**Description of first aid measures****General advice:**

Remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Wash thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek immediate medical attention.

If swallowed:

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Indication of any immediate medical attention and special treatment needed**Note to physician**

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Safety Data Sheet**Mearlin® Super Bronze 9250Z**

Revision date : 2020/02/18

Version: 4.0

Page: 3/9

(30322670/SDS_GEN_US/EN)

5. Fire-Fighting Measures**Extinguishing media**

Suitable extinguishing media:
dry powder, foam

Unsuitable extinguishing media for safety reasons:
carbon dioxide

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
No particular hazards known.

Advice for fire-fighters

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

If exposed to fire, keep containers cool by spraying with water.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions

Do not empty into drains.

This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.
For large amounts: Pick up with suitable appliance and dispose of.

Spills should be contained and placed in suitable containers for disposal.

7. Handling and Storage**Precautions for safe handling**

Avoid dust formation. Closed containers should only be opened in well-ventilated areas.

Protection against fire and explosion:
No special precautions necessary.

See SDS section 5 - Fire fighting measures. Prevent electrostatic charge accumulation.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: No special precautions necessary.

Safety Data Sheet

Mearlin® Super Bronze 9250Z

Revision date : 2020/02/18

Page: 4/9

Version: 4.0

(30322670/SDS_GEN_US/EN)

Keep in a cool place. Keep container dry.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

Iron oxide	OSHA PEL	PEL 10 mg/m3 fumes/smoke ; TWA value 10 mg/m3 fumes/smoke ;
	ACGIH TLV	TWA value 5 mg/m3 Respirable fraction ;
Mica-group minerals	OSHA PEL	TWA value 3 mg/m3 Respirable dust ; TWA value 20 millions of particles per cubic foot of air ;
	ACGIH TLV	TWA value 3 mg/m3 Respirable fraction ;

Personal protective equipment

Respiratory protection:

Observe OSHA regulations for respirator use (29 CFR 1910.134). Wear a NIOSH-certified (or equivalent) particulate respirator.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Due to the colouring properties of the product closed work clothes should be used, to avoid stains during manipulation. Hands and/or face should be washed before breaks and at the end of the shift. Wash soiled clothing immediately.

9. Physical and Chemical Properties

Form:	powder
Odour:	odourless
Odour threshold:	No applicable information available.
Colour:	brown
pH value:	6.0 - 11.0 (4 %(m))
Melting point:	The substance / product decomposes.
Boiling point:	not applicable
Flash point:	not applicable, the product is a solid
Flammability:	not flammable
Autoignition:	Study does not need to be conducted.
Vapour pressure:	not applicable
Density:	3.2 kg/l (approx. 20 °C)
Relative density:	3.2
Bulk density:	146 kg/m3

Safety Data Sheet**Mearlin® Super Bronze 9250Z**

Revision date : 2020/02/18

Page: 5/9

Version: 4.0

(30322670/SDS_GEN_US/EN)

Partitioning coefficient n-octanol/water (log Pow):	Study scientifically not justified.
Self-ignition temperature:	Study scientifically not justified. not self-igniting
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	Study does not need to be conducted.
Solubility in water:	insoluble
Evaporation rate:	The product is a non-volatile solid.
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity**Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

not fire-propagating

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

The product is chemically stable.

Hazardous polymerization will not occur.

Conditions to avoid

Avoid dust formation. Avoid deposition of dust. No special precautions other than good housekeeping of chemicals.

Incompatible materials

No substances known that should be avoided.

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information**Primary routes of exposure**

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Safety Data Sheet**Mearlin® Super Bronze 9250Z**

Revision date : 2020/02/18

Page: 6/9

Version: 4.0

(30322670/SDS_GEN_US/EN)

Acute Toxicity/EffectsAcute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single skin contact. Virtually nontoxic after a single ingestion. The product has not been tested. The statement has been derived from the properties of the individual components.

Oral

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from the properties of the individual components.

Skin

Species: rabbit

Result: non-irritant

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Eye

Species: rabbit

Result: non-irritant

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Sensitization

Assessment of sensitization: The chemical structure does not suggest a sensitizing effect.

Guinea pig maximization test

Species: guinea pig

Result: Non-sensitizing.

Method: OECD Guideline 406

The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic Toxicity/EffectsRepeated dose toxicity

Assessment of repeated dose toxicity: Prolonged or repeated exposure may cause pulmonary problems. The product has not been tested. The statement has been derived from the properties of the individual components.

Genetic toxicity

Assessment of mutagenicity: Based on the ingredients, there is no suspicion of a mutagenic effect.

Reproductive toxicity

Assessment of reproduction toxicity: No reliable data are available concerning reproduction toxicity.

Teratogenicity

Assessment of teratogenicity: No reliable data was available concerning teratogenicity.

Other Information

Safety Data Sheet**Mearlin® Super Bronze 9250Z**

Revision date : 2020/02/18

Page: 7/9

Version: 4.0

(30322670/SDS_GEN_US/EN)

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components. The product has been assessed on the basis of the components' available data. To some extent data gaps exist for individual components. According to our present knowledge and experience dangers which are not covered by the current labeling are not to be expected.

Medical conditions aggravated by overexposure

Inhalation of dust could aggravate existing respiratory conditions.

12. Ecological Information**Toxicity**Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish

LC50 (96 h) > 100 mg/l, Fish

The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic invertebrates

LC50 (48 h), daphnia
not determined

Aquatic plants

EC50 (72 h), algae
not determined

Chronic toxicity to fish

No data available.

Chronic toxicity to aquatic invertebrates

No data available.

Microorganisms/Effect on activated sludgeToxicity to microorganisms

bacteria/EC50 (0.5 h):
not determined

Persistence and degradabilityAssessment biodegradation and elimination (H₂O)

The colourant is insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plant

Elimination information

Not readily biodegradable (by OECD criteria).

Bioaccumulative potential

Safety Data Sheet**Mearlin® Super Bronze 9250Z**

Revision date : 2020/02/18

Page: 8/9

Version: 4.0

(30322670/SDS_GEN_US/EN)

Assessment bioaccumulation potential

The product will not be readily bioavailable due to its consistency and insolubility in water.
The product has not been tested. The statement has been derived from the properties of the individual components.

Mobility in soil**Assessment transport between environmental compartments**

The substance will not evaporate into the atmosphere from the water surface.

Additional information

Other ecotoxicological advice:

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product has not been tested. The statement has been derived from the properties of the individual components.

13. Disposal considerations**Waste disposal of substance:**

Must be disposed of or incinerated in accordance with local regulations.
Dispose of in a licensed facility. Do not discharge into drains/surface waters/groundwater. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA. This product does not possess any of the four identifying characteristics of hazardous waste (ignitability, corrosivity, reactivity, or toxicity).

Container disposal:

Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information**Land transport**

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information**Federal Regulations****Registration status:**

Cosmetic TSCA, US released / exempt

Chemical TSCA, US released / listed

Safety Data Sheet**Mearlin® Super Bronze 9250Z**

Revision date : 2020/02/18

Page: 9/9

Version: 4.0

(30322670/SDS_GEN_US/EN)

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

NFPA Hazard codes:

Health: 1 Fire: 1 Reactivity: 0 Special:

HMIS III ratingHealth: 1 Flammability: 1 Physical hazard: 0

16. Other Information**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2020/02/18

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

Mearlin® Super Bronze 9250Z END OF DATA SHEET

We create chemistry

Safety Data Sheet

Mearlin® NU-Antique Silver 9110AB

Revision date : 2018/09/13

Version: 4.0

Page: 1/9

(30322608/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Mearlin® NU-Antique Silver 9110AB

Recommended use of the chemical and restriction on use

Recommended use*: colourant(s)

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF Colors & Effects USA LLC
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: metal oxides
Synonyms: Layer pigments of metal oxides

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

Safety Data Sheet**Mearlin® NU-Antique Silver 9110AB**

Revision date : 2018/09/13

Version: 4.0

Page: 2/9

(30322608/SDS_GEN_US/EN)

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition / Information on Ingredients**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
12001-26-2	>= 50.0 - < 75.0%	Mica-group minerals
13463-67-7	>= 15.0 - < 25.0%	Titanium dioxide

4. First-Aid Measures**Description of first aid measures****General advice:**

Remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Wash thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek immediate medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment neededNote to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures**Extinguishing media**

Suitable extinguishing media:
dry powder, foam

Safety Data Sheet**Mearlin® NU-Antique Silver 9110AB**

Revision date : 2018/09/13

Version: 4.0

Page: 3/9

(30322608/SDS_GEN_US/EN)

Unsuitable extinguishing media for safety reasons:
carbon dioxide

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
No particular hazards known.

Advice for fire-fighters

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

If exposed to fire, keep containers cool by spraying with water.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions

Do not empty into drains.

This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.
For large amounts: Pick up with suitable appliance and dispose of.

Spills should be contained and placed in suitable containers for disposal.

7. Handling and Storage**Precautions for safe handling**

Avoid dust formation. Closed containers should only be opened in well-ventilated areas.

Protection against fire and explosion:
No special precautions necessary.

See MSDS section 5 - Fire fighting measures. Prevent electrostatic charge accumulation.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep in a cool place. Keep container dry.

8. Exposure Controls/Personal Protection**Components with occupational exposure limits**

Mica-group minerals	OSHA PEL	TWA value 3 mg/m3 Respirable dust ; TWA value 20 millions of particles per cubic foot of air ;
---------------------	----------	--

Safety Data Sheet**Mearlin® NU-Antique Silver 9110AB**

Revision date : 2018/09/13

Version: 4.0

Page: 4/9

(30322608/SDS_GEN_US/EN)

	ACGIH TLV	TWA value 3 mg/m3 Respirable fraction ;
Titanium dioxide	OSHA PEL	PEL 15 mg/m3 Total dust ; TWA value 10 mg/m3 Total dust ;
	ACGIH TLV	TWA value 10 mg/m3 ;

Personal protective equipment**Respiratory protection:**

Observe OSHA regulations for respirator use (29 CFR 1910.134). Wear a NIOSH-certified (or equivalent) particulate respirator.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Due to the colouring properties of the product closed work clothes should be used, to avoid stains during manipulation. Hands and/or face should be washed before breaks and at the end of the shift. Wash soiled clothing immediately.

9. Physical and Chemical Properties

Form:	powder
Odour:	odourless
Odour threshold:	not determined
Colour:	greyish
pH value:	6.0 - 10.5
Melting temperature:	> 1,000 °C The substance / product decomposes.
Boiling point:	not applicable, solid with a melting temperature over 300 °C
Flash point:	Study does not need to be conducted.
Flammability:	not flammable
Lower explosion limit:	For solids not relevant for classification and labelling.
Upper explosion limit:	For solids not relevant for classification and labelling.
Autoignition:	Study does not need to be conducted.
Vapour pressure:	not applicable
Density:	3.1 g/cm3 (approx. 20 °C)
Relative density:	3.1
Bulk density:	155 kg/m3
Vapour density:	The product is a non-volatile solid.
Partitioning coefficient n-octanol/water (log Pow):	Study does not need to be conducted.
Self-ignition temperature:	not self-igniting

Safety Data Sheet**Mearlin® NU-Antique Silver 9110AB**

Revision date : 2018/09/13

Page: 5/9

Version: 4.0

(30322608/SDS_GEN_US/EN)

Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	Study does not need to be conducted.
Particle size:	D95 4 - 90 µm
Solubility in water:	insoluble
Evaporation rate:	The product is a non-volatile solid.

10. Stability and Reactivity**Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
not fire-propagating

Chemical stability

The product is chemically stable.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

The product is chemically stable.

Hazardous polymerization will not occur.

Conditions to avoid

Avoid dust formation. Avoid deposition of dust. No special precautions other than good housekeeping of chemicals.

Incompatible materials

No substances known that should be avoided.

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information**Primary routes of exposure**

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/EffectsAcute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single skin contact. Virtually nontoxic after a single ingestion. The product has not been tested. The statement has been derived from the properties of the individual components.

Oral

Type of value: LD50

Safety Data Sheet**Mearlin® NU-Antique Silver 9110AB**

Revision date : 2018/09/13

Page: 6/9

Version: 4.0

(30322608/SDS_GEN_US/EN)

Species: rat**Value:** > 2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Inhalation**Type of value:** LC50

not determined

Dermal**Type of value:** LD50

not determined

Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from the properties of the individual components.

Skin**Species:** rabbit**Result:** non-irritant

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Eye**Species:** rabbit**Result:** non-irritant

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Sensitization

Assessment of sensitization: The chemical structure does not suggest a sensitizing effect.

Guinea pig maximization test**Species:** guinea pig**Result:** Non-sensitizing.**Method:** OECD Guideline 406

The product has not been tested. The statement has been derived from the properties of the individual components.

Aspiration Hazard

not applicable

Chronic Toxicity/EffectsRepeated dose toxicity

Assessment of repeated dose toxicity: Prolonged or repeated exposure may cause pulmonary problems. The product has not been tested. The statement has been derived from the properties of the individual components.

Genetic toxicity

Assessment of mutagenicity: No data was available concerning mutagenic activity. The chemical structure does not suggest a specific alert for such an effect.

Carcinogenicity*Information on: Titanium dioxide*

Assessment of carcinogenicity: IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term studies in

Safety Data Sheet**Mearlin® NU-Antique Silver 9110AB**

Revision date : 2018/09/13

Version: 4.0

Page: 7/9

(30322608/SDS_GEN_US/EN)

rats in which the substance was given by inhalation, a carcinogenic effect was observed. Tumors were only observed in rats after chronic inhalative exposure to high concentrations which caused sustained lung inflammation. In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. Dermal exposure is not expected to be carcinogenic.

Reproductive toxicity

Assessment of reproduction toxicity: No reliable data are available concerning reproduction toxicity.

Teratogenicity

Assessment of teratogenicity: No reliable data was available concerning teratogenicity.

Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components. The product has been assessed on the basis of the components' available data. To some extent data gaps exist for individual components. According to our present knowledge and experience dangers which are not covered by the current labeling are not to be expected.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Medical conditions aggravated by overexposure

Inhalation of dust could aggravate existing respiratory conditions.

12. Ecological Information**Toxicity**Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish

LC50 (96 h) > 100 mg/l, Fish

The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic invertebrates

LC50 (48 h), daphnia

not determined

Aquatic plants

EC50 (72 h), algae

not determined

Chronic toxicity to fish

No data available.

Chronic toxicity to aquatic invertebrates

Safety Data Sheet**Mearlin® NU-Antique Silver 9110AB**

Revision date : 2018/09/13

Version: 4.0

Page: 8/9

(30322608/SDS_GEN_US/EN)

No data available.

Microorganisms/Effect on activated sludgeToxicity to microorganisms

bacteria/EC50 (0.5 h):

not determined

Persistence and degradabilityAssessment biodegradation and elimination (H2O)

The colourant is insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plant

Additional information

Other ecotoxicological advice:

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product has not been tested. The statement has been derived from the properties of the individual components.

13. Disposal considerations**Waste disposal of substance:**

Must be disposed of or incinerated in accordance with local regulations.

Dispose of in a licensed facility. Do not discharge into drains/surface waters/groundwater. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA. This product does not possess any of the four identifying characteristics of hazardous waste (ignitability, corrosivity, reactivity, or toxicity).

Container disposal:

Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information**Land transport**

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information**Federal Regulations**

Safety Data Sheet**Mearlin® NU-Antique Silver 9110AB**

Revision date : 2018/09/13

Page: 9/9

Version: 4.0

(30322608/SDS_GEN_US/EN)

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

State regulations**State RTK****CAS Number****Chemical name**

PA

12001-26-2

Mica-group minerals

13463-67-7

Titanium dioxide

NJ

12001-26-2

Mica-group minerals

13463-67-7

Titanium dioxide

NFPA Hazard codes:

Health: 1 Fire: 0 Reactivity: 0 Special:

HMIS III ratingHealth: 1 Flammability: 0 Physical hazard: 0

16. Other Information**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2018/09/13

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

Mearlin® NU-Antique Silver 9110AB END OF DATA SHEET

00523-9013

Material Safety Data Sheet

MSDS Code: 9110S

Mearlin® Supersparks

Revision date: 10/06/05 Date Printed: 10/06/05

NFPA Classification:**Health:** 1**Flammability:** 0**Instability:** 0**Special Hazards:****HMIS Classification:****Health:** 1**Flammability:** 0**Physical Hazard:** 0**Personal Protection:** E**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Chemical Name: Chemical Mixture

Product Use: Colorant.

Supplier: The Earth Pigments Company
PO Box 1172 Cortaro, AZ 85652 520-682-8928
earthpigments.com info@earthpigments.com

For Chemical Emergency Call CHEMTREC (24 hours):
1-800-424-9300 (US, Canada, Puerto Rico, Virgin Islands)
1-703-527-3887 (Outside Above Area)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient CAS Number	Weight in Percent (%)	Notes
Mica 12001-26-2	81.0 - 89.0	None.
Titanium Dioxide 13463-67-7	11.0 - 19.0	None.

3. HAZARDS IDENTIFICATION**Emergency Overview:**

Color: Off-white
Form: Powder
Odor: Odorless
Flash Point, °C: Not Applicable

Most Important Hazards: May cause irritation of the eyes, skin and respiratory system. May result in coughing and difficulty breathing.

Potential Health Effects:

Inhalation: May cause irritation of the respiratory tract. May result in coughing and difficulty breathing.

Ingestion: No adverse health effects are expected from swallowing.

Skin Contact: May cause skin irritation.

Eye Contact: Dust may cause irritation and inflammation.

Carcinogenicity:

Ingredient CAS Number	Weight in Percent (%)	NTP (Y/N)	IARC (See Notes)	OSHA (Y/N)	ACGIH (See Notes)
Mica 12001-26-2	81.0 - 89.0	N	N	N	N
Titanium Dioxide 13463-67-7	11.0 - 19.0	N	N3	N	A4

Notes:

IARC: Y1=Carcinogenic to humans; Y2A=Probably carcinogenic to humans; Y2B=Possibly carcinogenic to humans; N3=Not classifiable as to its carcinogenicity; N=Not studied or probably not carcinogenic.

ACGIH: A1=Confirmed human carcinogen; A2=Suspected human carcinogen; A3=Confirmed animal carcinogen; A4=Not classifiable as a human carcinogen; A5=Not suspected as a human carcinogen; N=Not studied.

Chronic Health Hazards: Prolonged or repeated exposure to dust may cause pulmonary problems.

Aggravated Medical Conditions: Pulmonary disorders. Allergies.

4. FIRST AID MEASURES

Inhalation: Move person to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

Ingestion: Not a hazard under normal use conditions. If large quantities are ingested, seek medical advice.

Skin Contact: Wash with soap and water. Get medical attention if irritation persists.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point, °C: Not Applicable

Autoignition Temperature, °C: Not Applicable

Lower Explosive Limit, %: Not Applicable

Upper Explosive Limit, %: Not Applicable

Extinguishing Media: None - does not burn. Use extinguishing media appropriate for surrounding fire.

Fire Fighting Procedures: Positive pressure, self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Not a fire or explosion hazard.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Scoop up or vacuum into a container for reclamation or disposal. Avoid dusting.

7. HANDLING AND STORAGE

- Store in cool dry place.
- Avoid generating or breathing dust.
- Avoid contact with eyes.
- Material may be slippery when wet.
- Wash thoroughly after handling.
- Use only with adequate ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient CAS Number	Weight in Percent (%)	OSHA PEL	ACGIH TLV
Mica 12001-26-2	81.0 - 89.0	20 mppcf	3 mg/m ³ (Respirable fraction)
Titanium Dioxide 13463-67-7	11.0 - 19.0	15 mg/m ³ (Total dust)	10 mg/m ³ (Total dust)

Unless otherwise noted, all values are reported as 8-hour Time-Weighted Averages (TWAs) and total dust (particulates only). All ACGIH TLVs refer to the 2004 standards. Unless otherwise noted, all OSHA PELs refer to 29 CFR Part 1910 Air Contaminants: Final Rule, June 30, 1993.

Personal Protective Equipment: Safety glasses with side shields. Wear suitable gloves.

Respiratory Protection: Use a NIOSH/MSHA approved respirator as necessary to protect from: dust. If respiratory protection is used, follow all requirements for respiratory programs set forth in OSHA regulations (29 CFR 1910.134).

Ventilation: General ventilation. Local exhaust ventilation is recommended to control exposures to within applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Powder
Color: Off-white
Odor: Odorless
Melting Point, °C: Decomposes
Density: 2.9 Kg/L
Bulk Density: 17.1g/100 cc
Specific Gravity: 2.9
Solubility (in water): Insoluble
pH: 6.0-10.5 (4% H₂O)
Particle Size Range, µ: D(95%) = 10 - 150 µm

10. STABILITY AND REACTIVITY

Stability Data: Stable

Item Numbers: 00520-1020

Conditions/Hazards to Avoid: None known.

Incompatibility (Materials to Avoid): None known.

Hazardous Decomposition Products: None known.

Polymerization: Will not occur.

Polymerization - Avoid: None known.

11. TOXICOLOGICAL INFORMATION

Information on Product:

No data available.

Information on Components:

Ingredient CAS Number	Weight in Percent (%)	Acute Toxicity - Oral	Acute Toxicity - Inhalation	Acute Toxicity - Dermal	Acute Toxicity - Other
Mica 12001-26-2	81.0 - 89.0	Not Available	Not Available	Not Available	Not Available
Titanium Dioxide 13463-67-7	11.0 - 19.0	> 5,000 mg/kg (rat)	Not Available	Not Available	Not Available

12. ECOLOGICAL INFORMATION

Information on Product:

Environmental Fate:

Not expected to present deleterious adverse environmental effects.

Mobility:

Aquatic toxicity is unlikely due to low solubility

Persistence/Degradeability:

No data available to the best of our knowledge.

Ecotoxicological Information:

No data available.

13. DISPOSAL CONSIDERATIONS

US EPA Waste Number: Not Regulated

Disposal of Waste Method: This product, if disposed as received, is a non-hazardous waste. Local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected.

14. TRANSPORT INFORMATION

International Transport Regulations:

ICAO Class: Not Regulated

IMO Class: Not Regulated

US Transportation Regulations:**DOT Classification:** Not Regulated**Canadian Transportation of Dangerous Goods (TDG):****TDG Classification:** Not Regulated**15. REGULATORY INFORMATION****International Inventories:**

United States: This product or its ingredients are listed on or compliant with the TSCA Inventory.
Canada: This product or its ingredients are listed on or compliant with the DSL.
Europe: This product or its ingredients are listed on or compliant with EINECS.
Japan: This product or its ingredients are listed on or compliant with MITI.
Australia: This product or its ingredients are listed on or compliant with AICS.
Korea: This product or its ingredients are listed on or compliant with the ECL.
Philippines: This product or its ingredients are listed on or compliant with PICCS.
China: This product or its ingredients are listed on or compliant with the IECSC.

US Federal Regulations:

Ingredient CAS Number	Weight in Percent (%)	Subject to SARA 313 Reporting
Mica 12001-26-2	81.0 - 89.0	No
Titanium Dioxide 13463-67-7	11.0 - 19.0	No

SARA 311/ 312 Hazard Categories:

Acute Health Hazard

CAA 602 Ozone Depleting Substances (ODS):

This product neither contains nor is manufactured with an ozone depleting substance subject to the labeling requirements of the Clean Air Act Amendments 1990 and 40 CFR Part 82.

VOC Content: None**US State Regulations:****VOC Content (CARB):** None**Canadian Regulations:****WHMIS Classification:**

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations* .
Not Regulated

16. OTHER INFORMATION**Revision number:**

5

**Section(s) Revised in this
Version:**

NFPA/HMIS Classification

Section 3: Hazards Identification

Section 6: Accidental Release Measures

Section 8: Exposure Controls/Personal Protection

Section 9: Physical and Chemical Properties

Section 12: Ecological Information

Section 15: Regulatory Information



Fiche de données de sécurité conforme au règlement (CE) n°1907/2006 (REACH), n°2015/830

SAFETY DATA SHEET

Rubrique 1 : IDENTIFICATION OF THE SUBSTANCE, THE PREPARATION AND THE COMPANY

1.1 Identification of the substance / mixture

OMBRE NATURELLE

1.2 Relevant identified uses of the substance or mixture and uses advised against

Coloring material for building materials and use of creative hobbies

1.3 Manufacturer information

SOCIÉTÉ DES OCRES DE FRANCE

200 Chemin des Ociers

84400, APT – France

www.ocres-de-france.com / infos@ocres-de-france.com / +33 (0)4.90.74.63.82

1.4 Emergency number

www.centres-antipoison.net 01 40 05 48 48 (centre anti-poison)

Rubrique 2 : IDENTIFICATION OF RISKS

2.1 Classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008 and its adjustments

This mixture is not classified as dangerous according to Directive 67/548 / EEC and its amendments.

For more details on health consequences and symptoms, see section 11.

2.2 Labeling elements in accordance with Regulation (EC) No 1272/2008 and its adaptations

No labeling element is required.

2.3 Another dangers

The mixture does not meet the criteria for PBT or vPvB substances according to Annex XIII of REACH Regulation (CE) No 1907/2006.

Rubrique 3 : COMPOSITION / INFORMATION ON COMPONENTS

CI : R102-Bk11

Composition : natural iron oxide and calcium carbonate

Substance / préparation : preparation

Numéros cas : 1317-61-9

Numéros einecs : no

To the present knowledge of the supplier, this product does not contain any ingredients that are hazardous to require a statement in this section, in accordance with EU regulations or national regulations.
REACH : this preparation is not subject to REACH.

Rubrique 4 : FIRST AID

Transport the person to the fresh air. In case of fainting, place the person in a lateral safety position.
Immediately flush eyes with plenty of water, occasionally lifting the eyelids. Check if the victim wears contact lenses and in this case remove them.
If irritation occurs, consult a doctor.

Rubrique 5 : FIRE FIGHTING MEASURES

The mixture is not flammable. In case of fire, spray with water (in fog), foam, dry chemical or carbon dioxide.

Rubrique 6 : MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL RELEASE

Provide adequate ventilation. Put on appropriate personal protective equipment.
Avoid dispersal and spillage of the spilled product and contact with soil, surrounding aquatic environment, sewers or drains.

Rubrique 7 : HANDLING AND STORAGE

No special measures required.

Rubrique 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Wash hands, forearms and face after handling product.
Recommended : dust mask
Avoid contact with eyes. Use eye protection in accordance with an approved standard.
Personal protective equipment for the body should be selected according to the task to be performed and the risks involved.

Rubrique 9 : PHYSICAL AND CHEMICAL PROPERTIES

General informations

Physical state : powder
Color : dark brown/green
Odor : odorless
PH : no available
Melting point : not available
Bulk density : 900 g/l
Solubility : insoluble

Rubrique 10 : STABILITY AND REACTIVITY

The product is stable.

Under normal conditions of storage and use, no hazardous decomposition products should appear.

Rubrique 11 : TOXICOLOGICAL INFORMATION

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : Exposure to atmospheric concentrations above

Statutory or recommended exposure limits may possibly lead to eye irritation.

If the product is handled properly, it has no harmful effects according to our experiences and information.

Rubrique 12 : ECOLOGICAL INFORMATION

No known significant effects or critical hazards.

Rubrique 13 : CONSIDERATIONS RELATING TO ELIMINATION

In general : Check the suitability of the product for reuse. Uncleaned waste and uncleaned packaging must be packed or closed, labeled and disposed of at a destruction or recycling center in accordance with the national legislation in force. Consult the manufacturer in case of large quantities. If uncleaned empty containers are forwarded, inform the consignee of the possible risks due to the residues of the product. For disposal within the EU, use the waste code in force according to the European Waste List (LED). All waste producers are required, among other things, to classify their waste according to the category and process code of the European Waste List (LED).

To the present knowledge of the supplier, this product is not considered a hazardous waste as defined by EU Directive 91/689 / EEC.

Rubrique 14 : TRANSPORT

This product is not subject to labeling. No special conditions

Rubrique 15 : REGULATORY INFORMATION**15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture**

- Classification and labeling information in section 2 :

The following regulations have been taken into account :

- Règlement (CE) n°1272/2008 modifié par le règlement (UE) n° 487/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 758/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 944/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 605/2014
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 1297/2014
- Information about the packaging:

No data available.

- Particular dispositions :

No data available.

15.2. Chemical safety assessment

No data available.

Rubrique 16 : ANOTHER INFORMATIONS

Abréviations :

ADR : Accord européen relatif au transport international de marchandises Dangereuses par la Route.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

OACI : Organisation de l'Aviation Civile Internationale.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT : Persistante, bioaccumulable et toxique.

vPvB : Très persistante et très bioaccumulable.

SVHC : Substance of Very High Concern

Historical

Date of publication : may 2022

Date of the previous edition : march 2019





Fiche de données de sécurité conforme au règlement (CE) n°1907/2006 (REACH), n°2015/830

SAFETY DATA SHEET

Rubrique 1 : IDENTIFICATION OF THE SUBSTANCE, THE PREPARATION AND THE COMPANY

1.1 Identification of the substance / mixture

SIENNE NATURELLE

1.2 Relevant identified uses of the substance or mixture and uses advised against

Coloring material for building materials and use of creative hobbies

1.3 Manufacturer information

SOCIÉTÉ DES OCRES DE FRANCE

200 Chemin des Ociers

84400, APT – France

www.ocres-de-france.com / infos@ocres-de-france.com / +33 (0)4.90.74.63.82

1.4 Emergency number

www.centres-antipoison.net 01 40 05 48 48 (centre anti-poison)

Rubrique 2 : IDENTIFICATION OF RISKS

2.1 Classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008 and its adjustments

This mixture is not classified as dangerous according to Directive 67/548 / EEC and its amendments.

For more details on health consequences and symptoms, see section 11.

2.2 Labeling elements in accordance with Regulation (EC) No 1272/2008 and its adaptations

No labeling element is required.

2.3 Another dangers

The mixture does not meet the criteria for PBT or vPvB substances according to Annex XIII of REACH Regulation (CE) No 1907/2006.

Rubrique 3 : COMPOSITION / INFORMATION ON COMPONENTS

CI : Y43

Composition : SiO₂ + Al₂O₃ + Fe₂O₃

Substance / préparation : substance

Cas number : no

Numéros eincs : no

To the present knowledge of the supplier, this product does not contain any ingredients that are hazardous to require a statement in this section, in accordance with EU regulations or national regulations.

REACH : this preparation is not subject to REACH.

Rubrique 4 : FIRST AID

Transport the person to the fresh air. In case of fainting, place the person in a lateral safety position. Immediately flush eyes with plenty of water, occasionally lifting the eyelids. Check if the victim wears contact lenses and in this case remove them.
If irritation occurs, consult a doctor.

Rubrique 5 : FIRE FIGHTING MEASURES

The mixture is not flammable. In case of fire, spray with water (in fog), foam, dry chemical or carbon dioxide.

Rubrique 6 : MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL RELEASE

Provide adequate ventilation. Put on appropriate personal protective equipment.
Avoid dispersal and spillage of the spilled product and contact with soil, surrounding aquatic environment, sewers or drains.

Rubrique 7 : HANDLING AND STORAGE

No special measures required.

Rubrique 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Wash hands, forearms and face after handling product.
Recommended : dust mask
Avoid contact with eyes. Use eye protection in accordance with an approved standard.
Personal protective equipment for the body should be selected according to the task to be performed and the risks involved.

Rubrique 9 : PHYSICAL AND CHEMICAL PROPERTIES

General informations

Physical state : powder
Color : yellow
Odor : odorless

Important health, safety and environmental information

PH : 7
Melting point : not available
Bulk density : 900 g/l
Solubility : insoluble

Rubrique 10 : STABILITY AND REACTIVITY

The product is stable.

Under normal conditions of storage and use, no hazardous decomposition products should appear.

Rubrique 11 : TOXICOLOGICAL INFORMATION

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : Exposure to atmospheric concentrations above

Statutory or recommended exposure limits may possibly lead to eye irritation.

If the product is handled properly, it has no harmful effects according to our experiences and information.

Rubrique 12 : ECOLOGICAL INFORMATION

Sienna naturelle is, in the solid state, a mineral, natural constituent of the earth. In the dissolved state, the substance is a natural constituent of water in nature. Therefore, adverse effects on the environment can be excluded. His own can not be biodegraded

Rubrique 13 : CONSIDERATIONS RELATING TO ELIMINATION

In general : Check the suitability of the product for reuse. Uncleaned waste and uncleaned packaging must be packed or closed, labeled and disposed of at a destruction or recycling center in accordance with the national legislation in force. Consult the manufacturer in case of large quantities. If uncleaned empty containers are forwarded, inform the consignee of the possible risks due to the residues of the product. For disposal within the EU, use the waste code in force according to the European Waste List (LED). All waste producers are required, among other things, to classify their waste according to the category and process code of the European Waste List (LED).

To the present knowledge of the supplier, this product is not considered a hazardous waste as defined by EU Directive 91/689 / EEC.

Rubrique 14 : TRANSPORT

This product is not subject to labeling. No special conditions

Rubrique 15 : REGULATORY INFORMATION**15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture**

- Classification and labeling information in section 2 :

The following regulations have been taken into account :

- Règlement (CE) n°1272/2008 modifié par le règlement (UE) n° 487/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 758/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 944/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 605/2014

- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 1297/2014
- Information about the packaging:
No data available.
- Particular dispositions :
No data available.

15.2. Chemical safety assessment

No data available.

Rubrique 16 : ANOTHER INFORMATIONS

Abréviations :

ADR : Accord européen relatif au transport international de marchandises Dangereuses par la Route.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

OACI : Organisation de l'Aviation Civile Internationale.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT : Persistante, bioaccumulable et toxique.

vPvB : Très persistante et très bioaccumulable.

SVHC : Substance of Very High Concern

Historical

Date of publication : may 2022

Date of the previous edition : April 2018



Colorer votre vie au naturel

FICHE DE DONNEES DE SECURITE Conforme au règlement (CE) n°1907/2006 (REACH), n°2015/830

SAFETY DATA SHEET

Rubrique 1 : IDENTIFICATION OF THE SUBSTANCE, THE PREPARATION AND THE COMPANY

1.1 Identification of the substance / mixture

OMBRE CALCINEE

1.2 Relevant identified uses of the substance or mixture and uses advised against

Coloring material for building materials and use of creative hobbies

1.3 Manufacturer information

STE DES OCRES DE France

Impasse des Ocriers

84400 – APT – France

www.ocresdefrance.fr

1.3 emergency number

www.centres-antipoison.net 01 40 05 48 48 (centre anti-poison)

Rubrique 2 : IDENTIFICATION OF RISKS

2.1 classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008 and its adjustments.

This mixture is not classified as dangerous according to Directive 67/548 / EEC and its amendments.

For more details on health consequences and symptoms, see section 11.

2.2 labeling elements in accordance with Regulation (EC) No 1272/2008 and its adaptations.

No labeling element is required

2.3 Another dangers

The mixture does not meet the criteria for PBT or vPvB substances according to Annex XIII of REACH Regulation (CE) No 1907/2006

Rubrique 3: COMPOSITION / INFORMATION ON COMPONENTS

CI : R102

Composition : natural iron oxyde and calcium carbonate

Substance/ préparation : preparation

Numéros cas : 1317-65-3

215-279-6

Numéros einecs : no

To the present knowledge of the supplier, this product does not contain any ingredients that are hazardous to require a statement in this section, in accordance with EU regulations or national regulations.

REACH: this preparation is not subject to REACH

Rubrique 4: FIRST AID

Transport the person to the fresh air. In case of fainting, place the person in a lateral safety position. Immediately flush eyes with plenty of water, occasionally lifting the eyelids. Check if the victim wears contact lenses and in this case remove them.
If irritation occurs, consult a doctor.

Rubrique 5: FIRE FIGHTING MEASURES

The mixture is not flammable. In case of fire, spray with water (in fog), foam, dry chemical or carbon dioxide.

Rubrique 6: MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL RELEASE

Provide adequate ventilation. Put on appropriate personal protective equipment.
Avoid dispersal and spillage of the spilled product and contact with soil, surrounding aquatic environment, sewers or drains.

Rubrique 7: HANDLING AND STORAGE

No special measures required

Rubrique 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Wash hands, forearms and face after handling product.
Recommended: dust mask
Avoid contact with eyes. Use eye protection in accordance with an approved standard
Personal protective equipment for the body should be selected according to the task to be performed and the risks involved.

Rubrique 9: PHYSICAL AND CHEMICAL PROPERTIES

general informations
Physical state: powder
Color : dark brown
Odor: odorless
PH: no available
Melting point: not available
Bulk density: 831 g / l
Solubility: insoluble

Rubrique 10: STABILITY AND REACTIVITY

The product is stable
Under normal conditions of storage and use, no hazardous decomposition products should appear.

Rubrique 11: TOXICOLOGICAL INFORMATION

Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Eye contact: Exposure to atmospheric concentrations above statutory or recommended exposure limits may possibly lead to eye irritation.

If the product is handled properly, it has no harmful effects according to our experiences and information

Rubrique 12: ECOLOGICAL INFORMATION

No known significant effects or critical hazards.

Rubrique 13: CONSIDERATIONS RELATING TO ELIMINATION

In general: Check the suitability of the product for reuse. Uncleaned waste and uncleaned packaging must be packed or closed, labeled and disposed of at a destruction or recycling center in accordance with the national legislation in force. Consult the manufacturer in case of large quantities. If uncleaned empty containers are forwarded, inform the consignee of the possible risks due to the residues of the product. For disposal within the EU, use the waste code in force according to the European Waste List (LED). All waste producers are required, among other things, to classify their waste according to the category and process code of the European Waste List (LED).

To the present knowledge of the supplier, this product is not considered a hazardous waste as defined by EU Directive 91/689 / EEC

Rubrique 14: TRANSPORT

This product is not subject to labeling. No special conditions

Rubrique 15: REGULATORY INFORMATION

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

- Classification and labeling information in section 2:

The following regulations have been taken into account:

- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 487/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 758/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 944/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 605/2014
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 1297/2014

- Information about the packaging:

No data available.

- Particular dispositions :

No data available.

15.2. Chemical safety assessment

No data available.

Rubrique 16: ANOTHER INFORMATIONS

Abbreviations :

ADR : Accord européen relatif au transport international de marchandises Dangereuses par la Route.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

OACI : Organisation de l'Aviation Civile Internationale.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT : Persistante, bioaccumulable et toxique.

vPvB : Très persistante et très bioaccumulable.

SVHC : Substance of Very High Concern

Historical

Date of publication: may 2022

Date of the previous edition: June 2018



Fiche de données de sécurité conforme au règlement (CE) n°1907/2006 (REACH), n°2015/830

SAFETY DATA SHEET

Rubrique 1 : IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

1.1 Identification of the substance or the mixture

SIENNE CALCINÉE

1.2 Relevant identified uses of the substance or mixture and uses advised against

Coloring material for building materials and use of creative hobbies

1.3 Manufacturer information

SOCIÉTÉ DES OCRES DE FRANCE

200 Chemin des Ocriers

84400, APT – France

www.ocres-de-france.com / infos@ocres-de-france.com / +33 (0)4.90.74.63.82

1.4 Emergency number

www.centres-antipoison.net 01 40 05 48 48 (centre anti-poison)

Rubrique 2 : IDENTIFICATION OF RISKS

2.1 Classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008 and its adjustments

This mixture is not classified as dangerous according to Directive 67/548 / EEC and its amendments.

For more details on health consequences and symptoms, see section 11.

2.2 Labeling elements in accordance with Regulation (EC) No 1272/2008 and its adaptations

No labeling element is required.

2.3 Another dangers

The mixture does not meet the criteria for PBT or vPvB substances according to Annex XIII of REACH Regulation (CE) No 1907/2006.

Rubrique 3 : COMPOSITION / INFORMATION ON COMPONENTS

CI : R102

Composition : SiO₂ + Al₂O₃+Fe₂O₃

Substance / préparation : substance

Numéros cas : no

Numéros eincs : no

To the present knowledge of the supplier, this product does not contain any ingredients that are hazardous to require a statement in this section, in accordance with EU regulations or national regulations.

REACH : this preparation is not subject to REACH.

Rubrique 4 : FIRST AID

Transport the person to the fresh air. In case of fainting, place the person in a lateral safety position. Immediately flush eyes with plenty of water, occasionally lifting the eyelids. Check if the victim wears contact lenses and in this case remove them. If irritation occurs, consult a doctor.

Rubrique 5 : FIRE FIGHTING MEASURES

The mixture is not flammable. In case of fire, spray with water (in fog), foam, dry chemical or carbon dioxide.

Rubrique 6 : MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL RELEASE

Provide adequate ventilation. Put on appropriate personal protective equipment. Avoid dispersal and spillage of the spilled product and contact with soil, surrounding aquatic environment, sewers or drains.

Rubrique 7 : HANDLING AND STORAGE

No special measures required.

Rubrique 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Wash hands, forearms and face after handling product.

Recommended : dust mask

Avoid contact with eyes. Use eye protection in accordance with an approved standard.

Personal protective equipment for the body should be selected according to the task to be performed and the risks involved.

Rubrique 9 : PHYSICAL AND CHEMICAL PROPERTIES

General informations

Physical state : powder

Color : red/brown

Odor : odorless

PH : 7

Melting point : not available

Bulk density : 830 g/l

Solubility : insoluble

Rubrique 10 : STABILITY AND REACTIVITY

The product is stable.

Under normal conditions of storage and use, no hazardous decomposition products should appear.

Rubrique 11 : TOXICOLOGICAL INFORMATION

Any effects of chronic toxicity or sensitization are practically excluded because sienna calcinée (burnt sienna) is the calcination of solid sienne naturelle (natural sienna), which is a natural mineral of the earth's surface and, in a dissolved state, a natural constituent of water in nature.

Rubrique 12 : ECOLOGICAL INFORMATION

Sienna calcinée (burnt sienna) is the calcination of sienne naturelle (natural sienna) which is, in the solid state, a mineral, natural constituent of the earth. In dissolved state, the substance is a natural constituent of waters in nature. Adverse effects on the environment can therefore be excluded. Sienna calcinée cannot be biodegraded.

Rubrique 13 : CONSIDERATIONS RELATING TO ELIMINATION

In general : Check the suitability of the product for reuse. Uncleaned waste and uncleaned packaging must be packed or closed, labeled and disposed of at a destruction or recycling center in accordance with the national legislation in force. Consult the manufacturer in case of large quantities. If uncleaned empty containers are forwarded, inform the consignee of the possible risks due to the residues of the product. For disposal within the EU, use the waste code in force according to the European Waste List (LED). All waste producers are required, among other things, to classify their waste according to the category and process code of the European Waste List (LED).

To the present knowledge of the supplier, this product is not considered a hazardous waste as defined by EU Directive 91/689 / EEC.

Rubrique 14 : TRANSPORT

This product is not subject to labeling. No special conditions

Rubrique 15 : REGULATORY INFORMATION

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

- Classification and labeling information in section 2 :

The following regulations have been taken into account :

- Règlement (CE) n°1272/2008 modifié par le règlement (UE) n° 487/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 758/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 944/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 605/2014
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 1297/2014

- Information about the packaging:

No data available.

- Particular dispositions :

No data available.

15.2. Chemical safety assessment

No data available.

Rubrique 16 : ANOTHER INFORMATIONS**Abréviations :**

ADR : Accord européen relatif au transport international de marchandises Dangereuses par la Route.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

OACI : Organisation de l'Aviation Civile Internationale.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

PBT : Persistante, bioaccumulable et toxique.

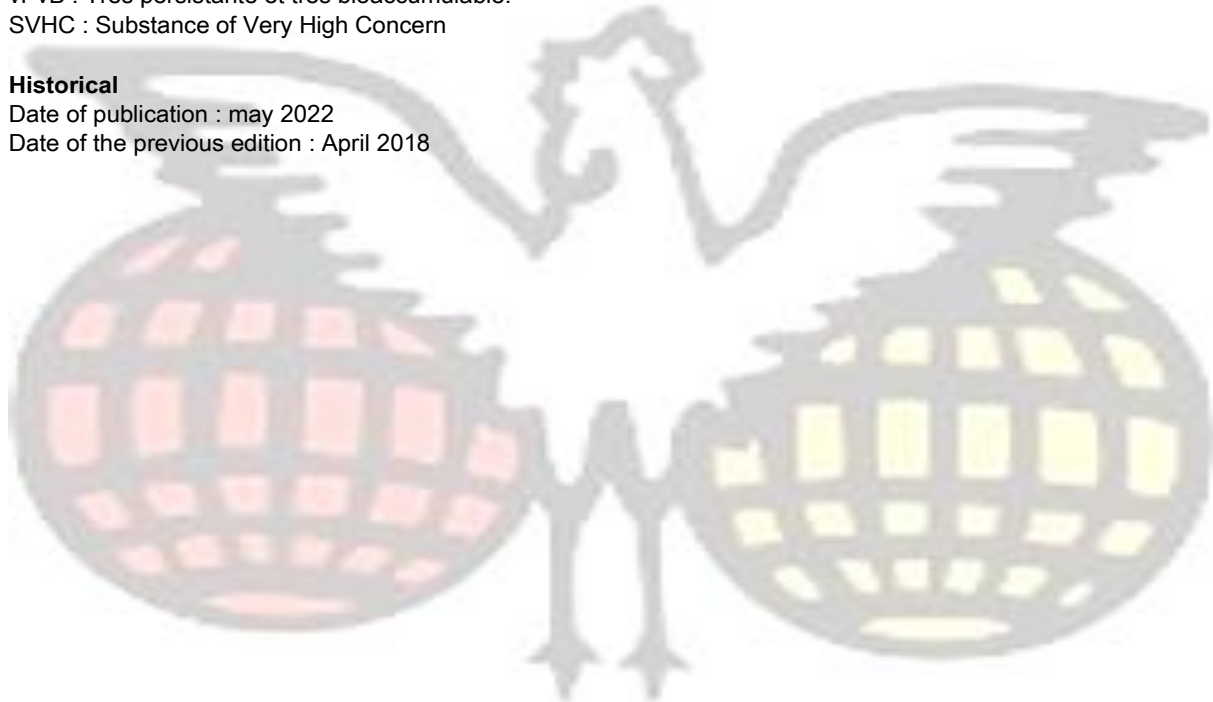
vPvB : Très persistante et très bioaccumulable.

SVHC : Substance of Very High Concern

Historical

Date of publication : may 2022

Date of the previous edition : April 2018





SOCIETE DES OCRES DE FRANCE

T.VERDE BRENTONICO

Revision nr. 01/18

Dated 25/01/2018

Printed on 25/01/2018

Page n. 1/8

Information Sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name T.VERDE BRENTONICO

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Dispersible pigment in aqueous solution, oils and resins

1.3. Details of the supplier of the safety data sheet

Name
Full address
District and Country

Société des Ogres de France

200 chemin des ocres – 84400 APT (France)

Tel : +33(0)4 90 74 63 82

infos@ocres-de-france.com

Stephanie Angles

e-mail address of the competent person
responsible for the Safety Data Sheet

1.4. Emergency telephone number

For urgent inquiries refer to

Centre anti-poison 01 40 05 48 48

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication: Not Classified.

2.2. Label elements

Hazard pictograms: --

Signal words: --

Hazard statements:

--

Precautionary statements:

--

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.



SOCIETE DES OCRES DE FRANCE

T.VERDE BRENTONICO

Revision nr. 01/18

Dated 25/01/2018

Printed on 25/01/2018

Page n. 2/5

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

It does not contain any specific classifications for the sake of the environment or for the sake of disposing of the Regulation (EU) 1272/2008 (CLP) (and subsequent amendments and adjustments) in quantitative terms of the declaration.

SECTION 4. First aid measures

4.1. Description of first aid measures

The product is not classified as dangerous according to the provisions of reg. (EC) 1272/2008 (CLP). However, for the sake of precaution, the following first aid measures are provided.

EYES: Remove any contact lenses. Wash with water for at least 15 minutes.

SKIN: Remove contaminated clothing from behind. Have a shower.

INGESTION: Do not administer anything that is not expressly authorized by the doctor.

4.2. Most important symptoms and effects, both acute and delayed

No specific information is known about the symptoms and effects caused by the product. For symptoms and effects due to the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

If there are no contraindications, spray powder with water to prevent the formation of dust.



SOCIETE DES OCRES DE FRANCE

T.VERDE BRENTONICO

Revision nr. 01/18

Dated 25/01/2018

Printed on 25/01/2018

Page n. 3/8

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. If the product is flammable, use explosion-proof equipment. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Do not inhale any dust, vapors or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid dispersion of the product in the environment.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container. Keep the containers tightly closed. Keep the product in clearly labeled containers. Keep containers away from incompatible materials, checking section 10.

7.3. Specific end use(s)

See section 1.2.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Information not available

8.2. Exposure controls

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION

None required.

SKIN PROTECTION

None required.

EYE PROTECTION

None required.

RESPIRATORY PROTECTION

None required.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.



SOCIETE DES OCRES DE FRANCE

T.VERDE BRENTONICO

Revision nr. 01/18

Dated 25/01/2018

Printed on 25/01/2018

Page n. 4/8

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	powder
Colour	green
Odour	mild characteristic
Odour threshold	Not available
pH	not applicable
Melting point / freezing point	not applicable
Initial boiling point	not applicable
Boiling range	not applicable
Flash point	Not inflammable.
Evaporation Rate	not applicable
Flammability of solids and gases	Not inflammable.
Lower inflammability limit	Not inflammable.
Upper inflammability limit	Not inflammable.
Lower explosive limit	Not explosive.
Upper explosive limit	Not explosive.
Vapour pressure	not applicable
Vapour density	not applicable
Relative density	2.60 gr/cm ³
Solubility	Insoluble in water
Partition coefficient: n-octanol/water	not applicable
Auto-ignition temperature	Not self-igniting.
Decomposition temperature	Not available
Viscosity	not applicable
Explosive properties	Not explosive.
Oxidising properties	Not available

9.2. Other information

No other information.

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Dangerous reactions are not expected under normal use and storage conditions.

10.4. Conditions to avoid

None in particular. However, follow the usual precautions with regard to chemicals.

10.5. Incompatible materials

Information not available.

10.6. Hazardous decomposition products

Information not available.



SOCIETE DES OCRES DE FRANCE

T.VERDE BRENTONICO

Revision nr. 01/18

Dated 25/01/2018

Printed on 25/01/2018

Page n. 5/8

SECTION 11. Toxicological information

11.1. Information on toxicological effects

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled according to good industrial practices.

ACUTE TOXICITY

LC50 (Inhalation - vapors) of the mixture: Not classified (no significant component).
LC50 (Inhalation - mists / powders) of the mixture: Not classified (no significant component).
LD50 (Oral) of the mixture: Not classified (no significant component).
LD50 (Cutaneous) of the mixture: Not classified (no significant component).

Acute toxicity

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Skin corrosion / skin irritation

On the basis of the available data and considering the classification criteria provided in Table 3.2.3 of Annex I, of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Serious eye damage / eye irritation

On the basis of the available data and considering the classification criteria provided in Table 3.3.3 of Annex I of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Respiratory or skin sensitization

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Germ cell mutagenicity

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Carcinogenicity

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Reproductive toxicity

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Specific target organ toxicity (STOT) - single exposure

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Specific target organ toxicity (STOT) - repeated exposure

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Danger in case of aspiration

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

SECTION 12. Ecological information

12.1. Toxicity

Based on the evaluation of the classification of components and the classification provisions of Annex I, Part 4 of Reg. (EC) 1272/2008 and s.m.i., the mixture is not classified as dangerous for the environment;

12.2. Persistence and degradability

No data available.



SOCIETE DES OCRES DE FRANCE

T.VERDE BRENTONICO

Revision nr. 01/18

Dated 25/01/2018

Printed on 25/01/2018

Page n. 6/8

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

No data available.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Solid residues may be suitable for disposal in an authorised landfill site.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

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

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

None

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%



SOCIETE DES OCRES DE FRANCE

T.VERDE BRENTONICO

Revision nr. 05/18

Dated 25/01/2018

Printed on 25/01/2018

Page n. 6/6

- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA website
 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

00523-7053



SAFETY DATA SHEET

SECTION 1 Identification

Product identifier	Chrome Oxide Green SGE-4
Identified uses	Inorganic pigment
Manufacturer	Shanghai Yipin Pigments Co.Ltd. 4839 Jiasong bei Rd, Shanghai, China 201814
Emergency information	Yipin Pigments Inc. 9843 6 th St. Suite 105 Rancho Cucamonga, CA 91730 Tel.:909-243-7394

SECTION 2 Hazards Information

HAZCOM standard Status	This Material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR Part 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Physical state	Powder
Color	Green
Classification of the substance or mixture	Not classified
Signal word	No signal word
Hazard statements	No known significant effects or critical hazards
Hazard Not Otherwise Classified(HNOC)	None Known.
Precautionary statements	
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Supplemental label elements	Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

SECTION 3 Composition/Information on Ingredients

Substance/mixture	Substance
--------------------------	-----------

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

CHROME OXIDE GREEN SGE-4

1

SECTION 4 First Aid Measures

Description of first aid measures:

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing becomes difficult.
Skin contact	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation Occurs.
Ingestion	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop giving water if the exposed person feels sick as vomiting may be dangerous. Get medical attention if symptoms occur.

Potential symptoms and effects from acute exposures:

Eye contact	May cause mechanical irritation(Abrasion).
Inhalation	No known significant effects or critical hazards.
Skin contact	May cause mechanical irritation(Abrasion).
Ingestion	No known significant effects or critical hazards.

Potential Symptoms and effects from over-exposures:

Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.

Potential Chronic Health effects

No known significant effects or critical hazards.

Recommendations for immediate medical attention/treatment:

Notes to physician	Treat symptomatically. No specific treatment.
Protection of first-aiders	No special measures required.

See toxicological information(Section 11)

SECTION 5 Fire-fighting measures

Extinguishing media:

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray(fog),foam or dry chemical.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	No specific fire or explosion hazard.
Hazardous thermal decomposition products	Decomposition products may include the following materials:

Special protective actions for fire-fighters	<p>sulfur oxides metal oxide/oxides</p> <p>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</p>
Special protective equipment for fire-fighters	<p>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</p>

SECTION 6 Accidental release measures

Personal precautions, Protective equipment and emergency procedures	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Put on appropriate personal protective equipment.</p>
Environmental precautions	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (Sewers, waterways, soil or air).</p>
Methods and materials for containment and cleaning up	<p>Move containers from spill area. Approach release from upwind. Vacuum or sweep up material and place in a designed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Prevent entry into sewers, water courses, basements or confined areas.</p>

SECTION 7 Handling and storage

Precautions for safe handling	<p>Protective measures: Avoid breathing dust. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</p>
Conditions for safe storage	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers or liners may retain some product residues.</p>

SECTION 8 Exposure controls/personal protection**Occupational exposure limits**

No exposure limit value known.

Appropriate engineering Controls

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protection Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate contaminated clothing before using. Ensure that eyewash stations and safety shower are close to the workstation location.

Eye/face protection

If contact with product is possible, wear safety glasses with side shields.

Skin protection

Wear suitable protective clothing and gloves. Suitable protective footwear.

**Respiratory protection
Medical Surveillance**

Dust-Production mask if there is a risk of dust formation.
Not available.

SECTION 9 Physical and chemical properties

Physical State	Solid. Powder
Color	Green
Odor	Odorless.
Odor threshold	Not available.
Ph	5.0 to 8.0(Conc. (% w/w): 5%)
Boiling point	4000 °C
Melting point	2435 °C
Flash point	Not available.
Evaporation rate	Not available.
Explosion limits	Not available.
Vapor pressure	Not available.
Specific gravity (Relative density)	Not available.
Density	approx. 5.2 g/cm ³ at 20 °C
Solubility	Insoluble in the following materials: cold water.
Partition coefficient noctanol/water	Not available
Vapor density	Not available.
Viscosity	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

SECTION 10 Stability and Reactivity**Reactivity**

No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability	The product is stable.
Possibility of hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No specific data.
Incompatible materials	No specific data.
Hazardous decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

Information on the likely routes of exposure Dermal contact, Eye contact, Inhalation and Ingestion.

Potential accurate health effects

Eye contact	May cause mechanical irritation(abrasion).
Inhalation	No known significant effects or critical hazards
Skin contact	May cause mechanical irritation(abrasion).
Ingestion	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics:

Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.

Potential chronic health effects

Short term exposure

Potential immediate effects Not available.

Long term exposure

Potential delayed effects	Not available.
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

Numerical measures of toxicity: Information on toxicological effects

Acute effects May be harmful by inhalation, ingestion, or skin absorption.
Cause eye and skin irritation.

ORAL Ld 50 -----5000 mg / kg (rat)

*EYE EFFECTS-----: Non- Irritation to rabbit eyes

*EYE EFFECTS-----: Non- Irritation to rabbit skin (24 hours)

*Based on results from a similar product

SECTION 12 Ecological information**Toxicity****Persistence and degradability** There is no data available.**Bioaccumulation potential** There is no data available.**Mobility in soil** Soil/water partition coefficient(Koc): Not available.**Other adverse effects** No known significant effects or critical hazards.**SECTION 13 Disposal considerations****WASTE MANAGEMENT** When handling waste, consideration should be made to the safety precautions applying to handling of the product. Refer to Section 7.**DISPOSAL METHODS** Material which cannot be re-used should be disposed of in accordance with federal, state and local environmental control regulations at an authorized site by an approved contractor. This product when discarded as sold is not an RCRA hazardous waste. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40CFR261.20-24)**WASTE CLASS** Non Hazardous**SECTION 14 Transport Information**

Transport Parameters	DOT Classification	IMDG	IATA
UN Number	-	-	-
UN Proper Shipping Name	-	-	-
Transport Hazard Class	-	-	-
Packing Group	-	-	-
Additional Information	Not regulated.	Not regulated.	Not regulated

SECTION 15 Regulatory Information**Status under SARA(311/312)** Not applicable.**Status under SARA Title III Section 302** None.**Extremely Hazardous Substances****Status under SARA Title III Section 313** This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.TSCA:The ingredients of this product are on the TSCA Inventory.**Status under US EPA CERCLA** None

Hazardous Substances(40 CFR 302) None**State regulations**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Ingredient name	CAS Number	State Code	Concentration(%)
C.I.Pigment Green17	1308-38-9		98--100%
Massachusetts Substances	MA-S		
Massachusetts Extraordinary Hazardous Substances	MA-Extra HS		
New Jersey Hazardous Substances	NJ-HS		
Pennsylvania RTK Hazardous Substances	PA-RTK HS		
Pennsylvania Special Hazardous Substances	PA-Special HS		

Status under California Prop 65

Potential exposure to some or all of the California Proposition 65 chemicals in this product have been determined to be below the No Significant Risk Level(NSRL) To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive(R) harm. Listed on the TSCA Inventory.

U.S.Toxic Substances Control Act**SECTION 16 Other information****Hazardous Material Information System:**

Health	1
Flammability	0
Physical hazards	0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme
*=Chronic

The customer is responsible for determining the PPE code for this material.
National Fire Protection Association (U.S.A.) :



CHROME OXIDE GREEN SGE-4

7

0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Yipin' method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by Yipin as a customer service.

Approval or Revision History

Date of Issue: (mm/dd/yyyy) 07/28/2014

Revision May 2015 Revised Section(S) per HCS-GHS

Notice to Reader

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It is provided solely for the customer's consideration, investigation and verification. Hereby specifically claims. It shall not be held liable for any damage resulting from handling or from contact with the above products.

Seller makes no warranty, express or implied, concerning the product or the merchantability or fitness thereof for any purpose or concerning the accuracy of any information provided by Yipin.

00523-6753

**SAFETY DATA SHEET****Ultramarine Violet**

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010 This SDS is not mandated under REACH Regulation (EC) No 1907/2006 and is provided for information only.

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name Ultramarine Violet

Chemical name Sodium alumino sulpho silicate

Product number 11, 12, 12T, 13, 20, CM34, CM125, Premier VB, Premier VU, Premier VX, Premier VUB, Premier VSB, Premier VSR, Premier VXB

Synonyms; trade names Pigment Violet 15:77007

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Industrial colour

1.3. Details of the supplier of the safety data sheet

Supplier *Société des Ogres de France*
200 chemin des ocriers
84400 APT (France)
Tel: 04 90 74 63 82
centre anti-poison : 01 40 05 48 48
mail: infos@ogres-de-france.com

1.4. Emergency telephone number

Emergency telephone +33 (0)1 40 05 48 48

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification (EC 1272/2008)**

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Ultramarine Violet

Human health May be slightly irritating to eyes. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. May be slightly irritating to skin.

Environmental The product is not expected to be hazardous to the environment.

2.2. Label elements

Hazard statements NC Not Classified

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. Contact with acids liberates hydrogen sulphide, a highly flammable, toxic gas.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

C.I. PIGMENT VIOLET 15 (77007)		80-100%
CAS number: 12769-96-9	EC number: 235-811-0	REACH registration number: 01-2119917334-42-0001
Classification Not Classified		
KAOLIN		0-20%
CAS number: 1332-58-7	EC number: 310-194-1	
Exempt under REACH		
Classification Not Classified		

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. Never give anything by mouth to an unconscious person.

Skin contact Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact Rinse with water. Get medical attention if any discomfort continues.

Protection of first aiders No specific requirements are anticipated under normal conditions of use.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Ingestion Due to the physical nature of this product, it is unlikely that ingestion will occur.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Eye contact May cause temporary eye irritation.

Ultramarine Violet

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

Notes for the doctor No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Additional information:

5.2. Special hazards arising from the substance or mixture

Specific hazards Sulphur dioxide.

Hazardous combustion products Sulphur dioxide.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust and vapours.

6.2. Environmental precautions

Environmental precautions Avoid spreading dust or contaminated materials. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Avoid generation and spreading of dust.

6.4. Reference to other sections

Reference to other sections See Section 1 for emergency contact information. For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using this product. Earth container and transfer equipment to eliminate sparks from static electricity.

Advice on general occupational hygiene Use appropriate skin cream to prevent drying of skin.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep container dry. Keep away from flammable and combustible materials. Avoid contact with acids and alkalis. Keep away from food and drink.

Ultramarine Violet

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

KAOLIN

Long-term exposure limit (8-hour TWA): WEL 2 mg/m³ respirable dust

WEL = Workplace Exposure Limit.

Ingredient comments No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment



Appropriate engineering controls Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Dust-resistant, chemical splash goggles.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Hygiene measures Wash at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

Environmental exposure controls Insoluble in water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Dusty powder.
Colour	Violet.
Odour	Odourless.
Odour threshold	Not applicable.
pH	pH (diluted solution): 7-9 10%
Melting point	Not relevant.
Initial boiling point and range	Not relevant.
Flash point	Not relevant.
Evaporation rate	Not relevant.
Evaporation factor	Not relevant.
Flammability (solid, gas)	Not relevant.

Ultramarine Violet

Upper/lower flammability or explosive limits	Not relevant.
Other flammability	Not relevant.
Vapour pressure	Not relevant.
Vapour density	Not relevant.
Relative density	~ 2.35 g/cm ³
Solubility(ies)	Insoluble in water.
Decomposition Temperature	400°C/750°F
Viscosity	Not relevant.
Explosive properties	Not applicable.
Explosive under the influence of a flame	Not considered to be explosive.

9.2. Other information

Volatile organic compound	This product contains a maximum VOC content of None .
---------------------------	---

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Acids.
------------	--------

10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended. Will decompose at temperatures exceeding 400°C/750°F.
-----------	---

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	At temperatures above 400°C/750°F in the presence of air an exothermic reaction can occur with the liberation of Sulphur Dioxide (SO ₂) gas. Contact with acids liberates Hydrogen Sulphide (H ₂ S) gas
------------------------------------	---

10.4. Conditions to avoid

Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
---------------------	---

10.5. Incompatible materials

Materials to avoid	Acids.
--------------------	--------

10.6. Hazardous decomposition products

Hazardous decomposition products	Hydrogen sulphide (H ₂ S). Will decompose at temperatures exceeding 400°C/750°F. Heating may generate the following products: Sulphur dioxide.
----------------------------------	---

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	No data recorded.
-----------------------	-------------------

Skin corrosion/irritation

Skin corrosion/irritation	Not irritating.
---------------------------	-----------------

General information	No specific health hazards known.
---------------------	-----------------------------------

Ultramarine Violet

SECTION 12: Ecological information

Ecotoxicity The product components are not classified as environmentally hazardous.

12.1. Toxicity

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >32000 mg/l,

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: >90 %, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product is not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

12.4. Mobility in soil

Mobility The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Reuse or recycle products wherever possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Avoid the spillage or runoff entering drains, sewers or watercourses.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Item Numbers: 00520-1020

Ultramarine Violet**Environmentally hazardous substance/marine pollutant**

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code****SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

National regulations The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019. UK Statutory Instrument 2019 No. 720
The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019. UK Statutory Instruments 2019 No. 758

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Regulation (EU) No 453/2010 of 20 May 2010.
Commission Regulation (EU) No 2015/830 of 28 May 2015.

Authorisations (Annex XIV Regulation 1907/2006) No specific authorisations are known for this product.

Restrictions (Annex XVII Regulation 1907/2006) No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

Not required as non-hazardous material

Inventories**EU - EINECS/ELINCS**

All the ingredients are listed or exempt.

SECTION 16: Other information

Issued by Product Regulations Dept
Revision date 18/03/2021
Revision 6
Supersedes date 12/11/2020
SDS number 21935
SDS status Approved.

Ultramarine Violet

The information provided is based on the current state of knowledge. This data sheet of security describes the product solely from the aspect of security. The data above does not have the value of warranty regarding the composition, properties or performance of the products.



PT-NR Natural Red

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
Revision Date: 04/26/2021 Date of issue: 12/14/2015

Version: 3.1

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: PT-NR Natural Red

Synonyms: Natural Red Iron Oxide

1.2. Intended Use of the Product

Use of the substance/mixture: Inorganic pigment used as a colorant for industrial, commercial, and consumer applications.

1.3. Name, Address, and Telephone of the Responsible Party

Company

Hoover Color

A Division of Cathay Industries (USA), Inc.

2170 Julia Simpkins Road

Hiwassee, VA 24347

540-980-7233

www.hoovercolor.com

1.4. Emergency Contact

: Burl Bowman bbowman@cathayindusa.com

Emergency Number 24/7

: Domestic & Canada 1-800-633-8253 PERS (Professional Emergency Resource Services); International 1-801-629-0667 Cathay Customer # 12060

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Not classified

2.2. Label Elements

GHS-US Labeling

No labeling applicable

2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	Classification (GHS-US)
Iron Oxide (Fe ₂ O ₃)	(CAS No) 1317-60-8	≥ 97	Not classified
Silica, Amorphous	(CAS No) 7631-86-9	1 - < 3	Not classified
Water	(CAS No) 7732-18-5	≤ 1	Not classified

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

First-aid Measures After Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Rinse immediately with plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention. Obtain medical attention if there is persistent irritation.

First-aid Measures After Ingestion: Do not induce vomiting. Rinse mouth. Seek medical attention if any problems arise.

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: May cause skin irritation.

Symptoms/Injuries After Eye Contact: Obtain medical attention if there is persistent irritation.

Symptoms/Injuries After Ingestion: Ingestion is not likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other Information: Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing dust.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Use safe, appropriate practices.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop spill if safe to do so. Eliminate ignition sources. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain and collect as any solid.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal.

6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

7.3. Specific End Use(s)

Inorganic pigment used as a colorant for industrial, commercial, and consumer applications.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Inert or Nuisance Dust		
USA ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³ Respirable fraction 10 mg/m ³ Total Dust

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ Respirable fraction 15 mg/m ³ Total Dust
Iron oxide (CAS 1309-37-1)/(CAS 1317-60-8) (Fe₂O₃)		
USA ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³ (dust and fume)
USA IDLH	US IDLH (mg/m ³)	2500 mg/m ³ (dust and fume)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	10 mg/m ³ (fume) 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
Silica, Amorphous (CAS 7631-86-9)		
USA OSHA	OSHA PEL (TWA) (mg/m ³)	0.8 mg/m ³
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	6 mg/m ³
Water (7732-18-5)		
USA ACGIH	TLV	Not applicable
USA OSHA	PEL	Not applicable
USA NIOSH	REL	Not applicable
USA NIOSH	IDLH	Not applicable

8.2. Exposure Controls

Appropriate Engineering Controls

- : Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment

- : Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing

- : Suitable materials with adequate ventilation.

Hand Protection

- : Wear protective gloves.

Eye Protection

- : Safety glasses with side shields, or goggles, are recommended.

Skin and Body Protection

- : Wear suitable protective clothing.

Respiratory Protection

- : Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Environmental Exposure Controls

- : Do not allow the product to be released into the environment.

Consumer Exposure Controls

- : Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: Red powder
Odor	: None
Odor Threshold	: No data available
pH	: 7 - 8
Evaporation Rate	: No data available
Melting Point	: > 1000 °C (1832 °F)
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: Not applicable
Auto-ignition Temperature	: Not applicable
Decomposition Temperature	: No data available
Flammability (solid, gas)	: Solid, Not flammable
Vapor Pressure	: No data available
Relative Vapor Density at 20 °C	: No data available

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Relative Density	: No data available
Specific Gravity	: 5.2
Tap Density	: 1.2 g/cc
Solubility	: Insoluble
Partition Coefficient: N-octanol/water	: No data available
Viscosity	: Not applicable

9.2. Other Information

VOC content : 0 %

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Contact with incompatible materials.
- 10.5. Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.
- 10.6. Hazardous Decomposition Products:** Not available

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on Toxicological Effects**

Acute Toxicity: Not classified

Iron oxide (Fe₂O₃) (1317-60-8)	
LD50 Oral Rat	> 10,000 mg/kg

Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Iron oxide (Fe₂O₃) (1317-60-8)	
IARC group	3 Not classifiable as to carcinogenicity to humans

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: May cause skin irritation.

Symptoms/Injuries After Eye Contact: Obtain medical attention if there is persistent irritation.

Symptoms/Injuries After Ingestion: Ingestion is not likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1. Toxicity:** No additional information available
- 12.2. Persistence and Degradability:** No additional information available
- 12.3. Bioaccumulative Potential:** No additional information available
- 12.4. Mobility in Soil:** No additional information available
- 12.5. Other Adverse Effects**
- Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Ecology – Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

- 14.1. In Accordance with DOT:** Not regulated for transport
- 14.2. In Accordance with IMDG:** Not regulated for transport
- 14.3. In Accordance with IATA:** Not regulated for transport

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: REGULATORY INFORMATION**15.1 US Federal Regulations****Iron oxide (Fe₂O₃) (CAS 1317-60-8)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Silica, Amorphous (CAS 7631-86-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Water (CAS 7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.**Superfund Amendments and Reauthorization Act of 1986 (SARA):** Immediate Hazard – No Delayed Hazard – No**SARA 313 (TRI Reporting):** Not regulated.**15.2 US State Regulations****Silica, Amorphous (CAS 7631-86-9)**

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. – California Proposition 65: This material is not know to contain any chemicals currently listed as carcinogens or reproductive toxins.

International:

COUNTRY	CHEMICAL INVENTORY	STATUS
Europe	EINECS	215-275-4
Canada	DSL	Not Listed
Canada	NDSL	Listed
China	IECSC	Listed
Japan	ENCS	Exempt
Australia	AICS	Listed
Korea	KECL	Listed
New Zealand	NZIoC	Listed
Philippines	PICCS	Exempt

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**Review or Revision Date** : 04/26/2021 Company PO Box # deleted; Emergency response provider changed.**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.**HMIS III Rating****Health** : 1 Slight Hazard - Irritation or minor reversible injury possible**Flammability** : 0 Minimal Hazard**Physical** : 0 Minimal Hazard**Personal Protection** : E (glasses, gloves, dust respirator)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)

04/26/2021

EN (English US)

5/5

Item Numbers: 00520-1020

Page 68 of 126



Fiche de données de sécurité conforme au règlement (CE) n°1907/2006 (REACH), n°2015/830

SAFETY DATA SHEET

Rubrique 1 : IDENTIFICATION OF THE SUBSTANCE, THE PREPARATION AND THE COMPANY

1.1 Identification of the substance / mixture

VERT TURQUOISE

1.2 Relevant identified uses of the substance or mixture and uses advised against

Coloring material for building materials and use of creative hobbies

1.3 Manufacturer information

SOCIÉTÉ DES OCRES DE FRANCE

200 Chemin des Ociers

84400, APT – France

www.ocres-de-france.com / infos@ocres-de-france.com / +33 (0)4.90.74.63.82

1.4 Emergency number

www.centres-antipoison.net 01 40 05 48 48 (centre anti-poison)

Rubrique 2 : IDENTIFICATION OF RISKS

2.1 Classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008 and its adjustments

This mixture is not classified as dangerous according to Directive 67/548 / EEC and its amendments.

For more details on health consequences and symptoms, see section 11.

2.2 Labeling elements in accordance with Regulation (EC) No 1272/2008 and its adaptations

No labeling element is required.

2.3 Another dangers

The mixture does not meet the criteria for PBT or vPvB substances according to Annex XIII of REACH Regulation (CE) No 1907/2006.

Rubrique 3 : COMPOSITION / INFORMATION ON COMPONENTS

CI : Y1-B15

Composition : mix of copper phthalocyanine pigment and azoic pigments

Substance / préparation : preparation

Cas number : 147-14-18 /

2512-29-0

Numéros eincs : no

To the present knowledge of the supplier, this product does not contain any ingredients that are hazardous to require a statement in this section, in accordance with EU regulations or national regulations.

REACH : this preparation is not subject to REACH.

Rubrique 4 : FIRST AID

Transport the person to the fresh air. In case of fainting, place the person in a lateral safety position. Immediately flush eyes with plenty of water, occasionally lifting the eyelids. Check if the victim wears contact lenses and in this case remove them. If irritation occurs, consult a doctor.

Rubrique 5 : FIRE FIGHTING MEASURES

The mixture is not flammable. In case of fire, spray with water (in fog), foam, dry chemical or carbon dioxide.

Rubrique 6 : MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL RELEASE

Provide adequate ventilation. Put on appropriate personal protective equipment. Avoid dispersal and spillage of the spilled product and contact with soil, surrounding aquatic environment, sewers or drains.

Rubrique 7 : HANDLING AND STORAGE

No special measures required.

Rubrique 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Wash hands, forearms and face after handling product.

Recommended : dust mask

Avoid contact with eyes. Use eye protection in accordance with an approved standard.

Personal protective equipment for the body should be selected according to the task to be performed and the risks involved.

Rubrique 9 : PHYSICAL AND CHEMICAL PROPERTIES

General informations

Physical state : powder

Color : green

Odor : odorless

PH : 6-9

Melting point : not available

Bulk density : 558 g/l

Solubility : insoluble

Rubrique 10 : STABILITY AND REACTIVITY

The product is stable.

Under normal conditions of storage and use, no hazardous decomposition products should appear.

Rubrique 11 : TOXICOLOGICAL INFORMATION

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : Exposure to atmospheric concentrations above

Statutory or recommended exposure limits may possibly lead to eye irritation.

If the product is handled properly, it has no harmful effects according to our experiences and information.

Rubrique 12 : ECOLOGICAL INFORMATION

No known significant effects or critical hazards.

Rubrique 13 : CONSIDERATIONS RELATING TO ELIMINATION

In general : Check the suitability of the product for reuse. Uncleaned waste and uncleaned packaging must be packed or closed, labeled and disposed of at a destruction or recycling center in accordance with the national legislation in force. Consult the manufacturer in case of large quantities. If uncleaned empty containers are forwarded, inform the consignee of the possible risks due to the residues of the product. For disposal within the EU, use the waste code in force according to the European Waste List (LED). All waste producers are required, among other things, to classify their waste according to the category and process code of the European Waste List (LED).

To the present knowledge of the supplier, this product is not considered a hazardous waste as defined by EU Directive 91/689 / EEC.

Rubrique 14 : TRANSPORT

This product is not subject to labeling. No special conditions

Rubrique 15 : REGULATORY INFORMATION

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

- Classification and labeling information in section 2 :

The following regulations have been taken into account :

- Règlement (CE) n°1272/2008 modifié par le règlement (UE) n° 487/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 758/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 944/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 605/2014
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 1297/2014

- Information about the packaging:

No data available.

- Particular dispositions :

No data available.

15.2. Chemical safety assessment

No data available.

Rubrique 16 : ANOTHER INFORMATIONS

Abréviations :

ADR : Accord européen relatif au transport international de marchandises Dangereuses par la Route.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

OACI : Organisation de l'Aviation Civile Internationale.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT : Persistante, bioaccumulable et toxique.

vPvB : Très persistante et très bioaccumulable.

SVHC : Substance of Very High Concern

Historical

Date of publication : may 2022

Date of the previous edition : / may 2018



00523-5233



SAFETY DATA SHEET

Ultramarine Blue

According to Regulation (EC) No 1907/2006, Annex II, as amended. This SDS is not mandated under REACH Regulation (EC) No 1907/2006 and is provided for information only.

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

1.1. Product identifier

Product name Ultramarine Blue

Chemical name Sodium alumino sulpho silicate

Product number 02, 03, 05, 05C, 055, 06, 07, 07T, 08, 08B, 08C, 08E, 08S, 08STK, 09, 09T, 10, 1008, 15, 15S, 16, 17, 17C, 17CBAC, 1701, 21, 23, 23S, 24, 24S, 25, 26, 26H, 26S, 31, 31F, 32, 32T, 5005, 5008, 5401, 5858, 51, 51C, 51S, 51T, 54, 54C, 54S, 55, 56, 59, 61, 63, 64, 65, 69, 71, 74, 75, 82, 91, 332, 359, 751, C111, C16, C76, C83, CM01, CM01D, CM05D, CM104, CM104D, CM105, CM108, CM121, CM13, CM140, CM151, CM154, CM169, CM181, CM193, CM194, CM2026, CM2047, CM2050, CM2066, CM207, CM207D, CM208, CM2144, CM215, CM226, CM241, CM249, CM253, CM27, CM28, CM295, CM296D, CM303, CM38, CM41, CM45, CM469, CM48, CM49S, CM64, CM72, CM73, CM75, CM77, CM79, CORAS, DP1150, DP1169, FRX-FJ, HA2, HG, RS3, RS32, RS8, ST106, ST51, ST61, ST62, ST63, ST64, ST78, ST83, ST87, ST90, ST91S, ST95, ST96, TR

Synonyms; trade names Pigment Blue 29:77007

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Industrial colour

1.3. Details of the supplier of the safety data sheet

Supplier *Société des Ocres de France*
 200 chemin des ocriers
 84400 APT (France)
 Tel: 04 90 74 63 82
 centre anti-poison : 01 40 05 48 48
 mail: infos@ocres-de-france.com

1.4. Emergency telephone number

Emergency telephone +33 (0)1 40 05 48 48

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Human health May be slightly irritating to eyes. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. May be slightly irritating to skin.

Ultramarine Blue

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified

Human health May be slightly irritating to eyes. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. May be slightly irritating to skin.

Environmental The product is not expected to be hazardous to the environment.

2.2. Label elements

Hazard statements NC Not Classified

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. Contact with acids liberates hydrogen sulphide, a highly flammable, toxic gas.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

C.I. PIGMENT BLUE 29 (77007)			80-100%
CAS number: 101357-30-6	EC number: 309-928-3	REACH registration number: 01-2119488928-13-0002	
Classification Not Classified			

KAOLIN			0-20%
CAS number: 1332-58-7	EC number: 310-194-1	Exempt under REACH	
Classification Not Classified			

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. Never give anything by mouth to an unconscious person.
Skin contact	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Rinse with water. Get medical attention if any discomfort continues.
Protection of first aiders	No specific requirements are anticipated under normal conditions of use.

4.2. Most important symptoms and effects, both acute and delayed

Ultramarine Blue

Inhalation	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
Ingestion	Due to the physical nature of this product, it is unlikely that ingestion will occur.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	May cause temporary eye irritation.

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

Notes for the doctor	No specific recommendations.
-----------------------------	------------------------------

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

Additional information:

5.2. Special hazards arising from the substance or mixture

Specific hazards	Sulphur dioxide.
Hazardous combustion products	Sulphur dioxide.

5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust and vapours.
-----------------------------	---

6.2. Environmental precautions

Environmental precautions	Avoid spreading dust or contaminated materials. Avoid the spillage or runoff entering drains, sewers or watercourses.
----------------------------------	---

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Avoid generation and spreading of dust.
--------------------------------	--

6.4. Reference to other sections

Reference to other sections	See Section 1 for emergency contact information. For personal protection, see Section 8. For waste disposal, see Section 13.
------------------------------------	--

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ultramarine Blue

Usage precautions

Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using this product. Earth container and transfer equipment to eliminate sparks from static electricity.

Advice on general occupational hygiene

Use appropriate skin cream to prevent drying of skin.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Keep container dry. Keep away from flammable and combustible materials. Avoid contact with acids and alkalis. Keep away from food and drink.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

C.I. PIGMENT BLUE 29 (77007)

Long-term exposure limit (8-hour TWA): NUI 4 mg/m³ respirable dust

Long-term exposure limit (8-hour TWA): NUI 10 mg/m³ inhalable dust

KAOLIN

Long-term exposure limit (8-hour TWA): WEL 2 mg/m³ respirable dust

WEL = Workplace Exposure Limit.

Ingredient comments

No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Dust-resistant, chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

Environmental exposure controls

Insoluble in water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Dusty powder.

Ultramarine Blue

Colour	Blue.
Odour	Odourless.
Odour threshold	Not applicable.
pH	pH (diluted solution): 7-9 10%
Melting point	Not relevant.
Initial boiling point and range	Not relevant.
Flash point	Not relevant.
Evaporation rate	Not relevant.
Evaporation factor	Not relevant.
Flammability (solid, gas)	Not relevant.
Upper/lower flammability or explosive limits	Not relevant.
Other flammability	Not relevant.
Vapour pressure	Not relevant.
Vapour density	Not relevant.
Relative density	~ 2.35 g/cm ³
Solubility(ies)	Insoluble in water.
Decomposition Temperature	400°C/750°F
Viscosity	Not relevant.
Explosive properties	Not applicable.
Explosive under the influence of a flame	Not considered to be explosive.

9.2. Other information

Volatile organic compound This product contains a maximum VOC content of None .

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity Acids.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Will decompose at temperatures exceeding 400°C/750°F.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions At temperatures above 400°C/750°F in the presence of air an exothermic reaction can occur with the liberation of Sulphur Dioxide (SO₂) gas.
Contact with acids liberates Hydrogen Sulphide (H₂S) gas The risk from contact with acids is greatly reduced when using an acid resistant grade

10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Item Numbers: 00520-1020

Ultramarine Blue

Materials to avoid Acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Hydrogen sulphide (H₂S). Will decompose at temperatures exceeding 400°C/750°F. Heating may generate the following products: Sulphur dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No data recorded.

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

General information No specific health hazards known.

SECTION 12: Ecological information

Ecotoxicity The product components are not classified as environmentally hazardous.

12.1. Toxicity

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >32000 mg/l,

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: >90 %, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product is not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

12.4. Mobility in soil

Mobility The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Reuse or recycle products wherever possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Avoid the spillage or runoff entering drains, sewers or watercourses.

SECTION 14: Transport information

Ultramarine Blue

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

National regulations

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019. UK Statutory Instrument 2019 No. 720
The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019. UK Statutory Instruments 2019 No. 758

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Regulation (EU) No 453/2010 of 20 May 2010.
Commission Regulation (EU) No 2015/830 of 28 May 2015.

Authorisations (Annex XIV Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Annex XVII Regulation 1907/2006)

No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

Not required as non-hazardous material

Inventories

Ultramarine Blue**EU - EINECS/ELINCS**

All the ingredients are listed or exempt.

SECTION 16: Other information

Issued by	Product Regulations Dept
Revision date	18/03/2021
Revision	15
Supersedes date	24/07/2020
SDS number	21593
SDS status	Approved.

The information provided is based on the current state of knowledge. This data sheet of security describes the product solely from the aspect of security. The data above does not have the value of warranty regarding the composition, properties or performance of the products.



Fiche de données de sécurité conforme au règlement (CE) n°1907/2006 (REACH), n°2015/830

SAFETY DATA SHEET

Rubrique 1 : IDENTIFICATION OF THE SUBSTANCE, THE PREPARATION AND THE COMPANY

1.1 Identification of the substance / mixture

JAUNE CITRON

1.2 Relevant identified uses of the substance or mixture and uses advised against

Coloring material for building materials and use of creative hobbies

1.3 Manufacturer information

SOCIÉTÉ DES OCRES DE FRANCE

200 Chemin des Ociers

84400, APT – France

www.ocres-de-france.com / infos@ocres-de-france.com / +33 (0)4.90.74.63.82

1.4 Emergency number

www.centres-antipoison.net 01 40 05 48 48 (centre anti-poison)

Rubrique 2 : IDENTIFICATION OF RISKS

2.1 Classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008 and its adjustments

This mixture is not classified as dangerous according to Directive 67/548 / EEC and its amendments.

For more details on health consequences and symptoms, see section 11.

2.2 Labeling elements in accordance with Regulation (EC) No 1272/2008 and its adaptations

No labeling element is required.

2.3 Another dangers

The mixture does not meet the criteria for PBT or vPvB substances according to Annex XIII of REACH Regulation (CE) No 1907/2006.

Rubrique 3 : COMPOSITION / INFORMATION ON COMPONENTS

CI : Y1

Composition : 2-[(4-méthyl-2-nitrophényl) azo]-3-oxo-N-phénylbutyramide

Substance / préparation : preparation

Numéros cas : 2512-29-0

1317-65-3
215-279-6

Numéros einecs : no

To the present knowledge of the supplier, this product does not contain any ingredients that are hazardous to require a statement in this section, in accordance with EU regulations or national regulations.

REACH : this preparation is not subject to REACH.

Rubrique 4 : FIRST AID

Transport the person to the fresh air. In case of fainting, place the person in a lateral safety position.

Immediately flush eyes with plenty of water, occasionally lifting the eyelids. Check if the victim wears contact lenses and in this case remove them.

If irritation occurs, consult a doctor.

Rubrique 5 : FIRE FIGHTING MEASURES

The mixture is not flammable. In case of fire, spray with water (in fog), foam, dry chemical or carbon dioxide.

Rubrique 6 : MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL RELEASE

Provide adequate ventilation. Put on appropriate personal protective equipment.

Avoid dispersal and spillage of the spilled product and contact with soil, surrounding aquatic environment, sewers or drains.

Rubrique 7 : HANDLING AND STORAGE

No special measures required.

Rubrique 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Wash hands, forearms and face after handling product.

Recommended : dust mask

Avoid contact with eyes. Use eye protection in accordance with an approved standard.

Personal protective equipment for the body should be selected according to the task to be performed and the risks involved.

Rubrique 9 : PHYSICAL AND CHEMICAL PROPERTIES

General informations

Physical state : powder

Color : yellow

Odor : odorless

Important health, safety and environmental information

PH : not available

Melting point : not available

Bulk density : 776 g/l
Solubility : insoluble

Rubrique 10 : STABILITY AND REACTIVITY

The product is stable.

Under normal conditions of storage and use, no hazardous decomposition products should appear.

Rubrique 11 : TOXICOLOGICAL INFORMATION

Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Eye contact : Exposure to atmospheric concentrations above
Statutory or recommended exposure limits may possibly lead to eye irritation.

If the product is handled properly, it has no harmful effects according to our experiences and information.

Rubrique 12 : ECOLOGICAL INFORMATION

No known significant effects or critical hazards.

Rubrique 13 : CONSIDERATIONS RELATING TO ELIMINATION

In general : Check the suitability of the product for reuse. Uncleaned waste and uncleaned packaging must be packed or closed, labeled and disposed of at a destruction or recycling center in accordance with the national legislation in force. Consult the manufacturer in case of large quantities. If uncleaned empty containers are forwarded, inform the consignee of the possible risks due to the residues of the product. For disposal within the EU, use the waste code in force according to the European Waste List (LED). All waste producers are required, among other things, to classify their waste according to the category and process code of the European Waste List (LED).

To the present knowledge of the supplier, this product is not considered a hazardous waste as defined by EU Directive 91/689 / EEC.

Rubrique 14 : TRANSPORT

This product is not subject to labeling. No special conditions

Rubrique 15 : REGULATORY INFORMATION**15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture**

- Classification and labeling information in section 2 :

The following regulations have been taken into account :

- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 487/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 758/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 944/2013

- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 605/2014
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 1297/2014
- Information about the packaging:
No data available.
- Particular dispositions :
No data available.

15.2. Chemical safety assessment

No data available.

Rubrique 16 : ANOTHER INFORMATIONS

Abréviations :

ADR : Accord européen relatif au transport international de marchandises Dangereuses par la Route.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

OACI : Organisation de l'Aviation Civile Internationale.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT : Persistante, bioaccumulable et toxique.

vPvB : Très persistante et très bioaccumulable.

SVHC : Substance of Very High Concern

Historical

Date of publication : May 2022

Date of the previous edition : April 2018



Fiche de données de sécurité conforme au règlement (CE) n°1907/2006 (REACH), n°2015/830

SAFETY DATA SHEET

Rubrique 1 : IDENTIFICATION OF THE SUBSTANCE, THE PREPARATION AND THE COMPANY

1.1 Identification of the substance / mixture

OCRE HAVANE

1.2 Relevant identified uses of the substance or mixture and uses advised against

Coloring material for building materials and use of creative hobbies

1.3 Manufacturer information

SOCIÉTÉ DES OCRES DE FRANCE

200 Chemin des Ocriers

84400, APT – France

www.ocres-de-france.com / infos@ocres-de-france.com / +33 (0)4.90.74.63.82

1.4 Emergency number

www.centres-antipoison.net 01 40 05 48 48 (centre anti-poison)

Rubrique 2 : IDENTIFICATION OF RISKS

2.1 Classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008 and its adjustments

This mixture is not classified as dangerous according to Directive 67/548 / EEC and its amendments.

For more details on health consequences and symptoms, see section 11.

2.2 Labeling elements in accordance with Regulation (EC) No 1272/2008 and its adaptations

No labeling element is required.

2.3 Another dangers

The mixture does not meet the criteria for PBT or vPvB substances according to Annex XIII of REACH Regulation (CE) No 1907/2006.

Rubrique 3 : COMPOSITION / INFORMATION ON COMPONENTS

CI : Y43-R102

Composition : SiO₂ + Al₂O₃ + Fe₂O₃

Substance / préparation : preparation

Cas number : no

Numéros eincs : no

To the present knowledge of the supplier, this product does not contain any ingredients that are hazardous to require a statement in this section, in accordance with EU regulations or national regulations.

REACH : this preparation is not subject to REACH.

Rubrique 4 : FIRST AID

Transport the person to the fresh air. In case of fainting, place the person in a lateral safety position. Immediately flush eyes with plenty of water, occasionally lifting the eyelids. Check if the victim wears contact lenses and in this case remove them.
If irritation occurs, consult a doctor.

Rubrique 5 : FIRE FIGHTING MEASURES

The mixture is not flammable. In case of fire, spray with water (in fog), foam, dry chemical or carbon dioxide.

Rubrique 6 : MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL RELEASE

Provide adequate ventilation. Put on appropriate personal protective equipment.
Avoid dispersal and spillage of the spilled product and contact with soil, surrounding aquatic environment, sewers or drains.

Rubrique 7 : HANDLING AND STORAGE

No special measures required.

Rubrique 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Wash hands, forearms and face after handling product.
Recommended : dust mask
Avoid contact with eyes. Use eye protection in accordance with an approved standard.
Personal protective equipment for the body should be selected according to the task to be performed and the risks involved.

Rubrique 9 : PHYSICAL AND CHEMICAL PROPERTIES

General informations

Physical state : powder
Color : orange
Odor : odorless
PH : 7
Melting point : not available
Bulk density : 685 g/l
Solubility : insoluble

Rubrique 10 : STABILITY AND REACTIVITY

The product is stable.

Under normal conditions of storage and use, no hazardous decomposition products should appear.

Rubrique 11 : TOXICOLOGICAL INFORMATION

Any effects of chronic toxicity or sensitization are practically excluded because that solid ochre is a natural mineral of the earth's surface and, in a dissolved state, a natural constituent of water in nature.

Rubrique 12 : ECOLOGICAL INFORMATION

Ochre is, in its solid state, a natural mineral constituent of the earth. In dissolved state, the substance is a natural constituent of waters in nature. Adverse effects on the environment can therefore be excluded. Ochre cannot be biodegraded.

Rubrique 13 : CONSIDERATIONS RELATING TO ELIMINATION

In general : Check the suitability of the product for reuse. Uncleaned waste and uncleaned packaging must be packed or closed, labeled and disposed of at a destruction or recycling center in accordance with the national legislation in force. Consult the manufacturer in case of large quantities. If uncleaned empty containers are forwarded, inform the consignee of the possible risks due to the residues of the product. For disposal within the EU, use the waste code in force according to the European Waste List (LED). All waste producers are required, among other things, to classify their waste according to the category and process code of the European Waste List (LED).

To the present knowledge of the supplier, this product is not considered a hazardous waste as defined by EU Directive 91/689 / EEC.

Rubrique 14 : TRANSPORT

This product is not subject to labeling. No special conditions

Rubrique 15 : REGULATORY INFORMATION

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

- Classification and labeling information in section 2 :

The following regulations have been taken into account :

- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 487/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 758/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 944/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 605/2014
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 1297/2014

- Information about the packaging:

No data available.

- Particular dispositions :

No data available.

15.2. Chemical safety assessment

No data available.

Rubrique 16 : ANOTHER INFORMATIONS**Abréviations :**

ADR : Accord européen relatif au transport international de marchandises Dangereuses par la Route.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

OACI : Organisation de l'Aviation Civile Internationale.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT : Persistante, bioaccumulable et toxique.

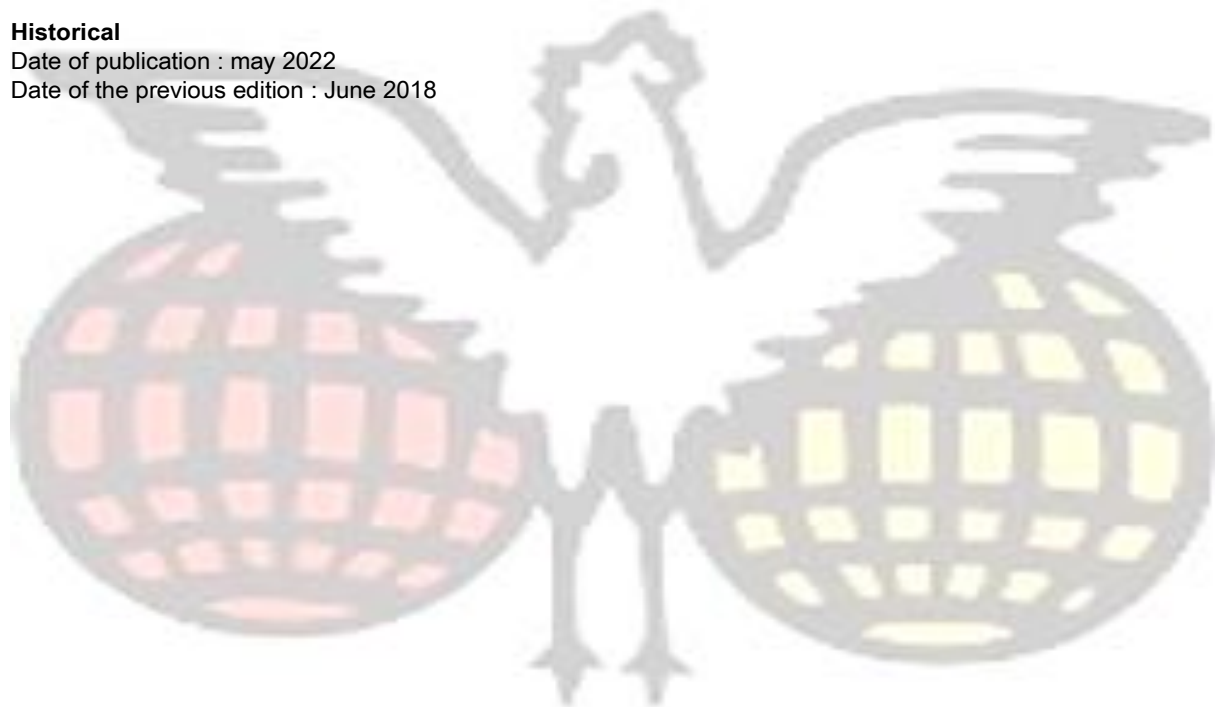
vPvB : Très persistante et très bioaccumulable.

SVHC : Substance of Very High Concern

Historical

Date of publication : may 2022

Date of the previous edition : June 2018





Fiche de données de sécurité conforme au règlement (CE) n°1907/2006 (REACH), n°2015/830

SAFETY DATA SHEET

Rubrique 1 : IDENTIFICATION OF THE SUBSTANCE, THE PREPARATION AND THE COMPANY

1.1 Identification of the substance / mixture

OCRE JAUNE USA

1.2 Relevant identified uses of the substance or mixture and uses advised against

Coloring material for building materials and use of creative hobbies

1.3 Manufacturer information

SOCIÉTÉ DES OCRES DE FRANCE

200 Chemin des Ociers

84400, APT – France

www.ocres-de-france.com / infos@ocres-de-france.com / +33 (0)4.90.74.63.82

1.4 Emergency number

www.centres-antipoison.net 01 40 05 48 48 (centre anti-poison)

Rubrique 2 : IDENTIFICATION OF RISKS

2.1 Classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008 and its adjustments

This mixture is not classified as dangerous according to Directive 67/548 / EEC and its amendments.

For more details on health consequences and symptoms, see section 11.

2.2 Labeling elements in accordance with Regulation (EC) No 1272/2008 and its adaptations

No labeling element is required.

2.3 Another dangers

The mixture does not meet the criteria for PBT or vPvB substances according to Annex XIII of REACH Regulation (CE) No 1907/2006.

Rubrique 3 : COMPOSITION / INFORMATION ON COMPONENTS

CI : Y43- Y42

Composition : mix of natural iron oxide and synthetic iron oxide

Substance / préparation : preparation

Numéros cas : no

Numéros einecs : no

To the present knowledge of the supplier, this product does not contain any ingredients that are hazardous to require a statement in this section, in accordance with EU regulations or national regulations.

REACH : this preparation is not subject to REACH.

Rubrique 4 : FIRST AID

Transport the person to the fresh air. In case of fainting, place the person in a lateral safety position. Immediately flush eyes with plenty of water, occasionally lifting the eyelids. Check if the victim wears contact lenses and in this case remove them. If irritation occurs, consult a doctor.

Rubrique 5 : FIRE FIGHTING MEASURES

The mixture is not flammable. In case of fire, spray with water (in fog), foam, dry chemical or carbon dioxide.

Rubrique 6 : MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL RELEASE

Provide adequate ventilation. Put on appropriate personal protective equipment. Avoid dispersal and spillage of the spilled product and contact with soil, surrounding aquatic environment, sewers or drains.

Rubrique 7 : HANDLING AND STORAGE

No special measures required.

Rubrique 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Wash hands, forearms and face after handling product.

Recommended : dust mask

Avoid contact with eyes. Use eye protection in accordance with an approved standard.

Personal protective equipment for the body should be selected according to the task to be performed and the risks involved.

Rubrique 9 : PHYSICAL AND CHEMICAL PROPERTIES

General informations

Physical state : powder

Color : yellow

Odor : odorless

PH : 7

Melting point : not available

Bulk density : 484 g/l

Solubility : insoluble

Rubrique 10 : STABILITY AND REACTIVITY

The product is stable.

Under normal conditions of storage and use, no hazardous decomposition products should appear.

Rubrique 11 : TOXICOLOGICAL INFORMATION

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : Exposure to atmospheric concentrations above

Statutory or recommended exposure limits may possibly lead to eye irritation.

If the product is handled properly, it has no harmful effects according to our experiences and information.

Rubrique 12 : ECOLOGICAL INFORMATION

Ochre, the major constituent of the product, is in the solid state, a mineral constituent, natural to the earth. In the dissolved state, the substance is a natural and indispensable constituent of waters in nature. Adverse effects on the environment can therefore be excluded. The product cannot be biodegraded. Do not throw in nature and sewers

Rubrique 13 : CONSIDERATIONS RELATING TO ELIMINATION

In general : Check the suitability of the product for reuse. Uncleaned waste and uncleaned packaging must be packed or closed, labeled and disposed of at a destruction or recycling center in accordance with the national legislation in force. Consult the manufacturer in case of large quantities. If uncleaned empty containers are forwarded, inform the consignee of the possible risks due to the residues of the product. For disposal within the EU, use the waste code in force according to the European Waste List (LED). All waste producers are required, among other things, to classify their waste according to the category and process code of the European Waste List (LED).

To the present knowledge of the supplier, this product is not considered a hazardous waste as defined by EU Directive 91/689 / EEC.

Rubrique 14 : TRANSPORT

This product is not subject to labeling. No special conditions

Rubrique 15 : REGULATORY INFORMATION

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

- Classification and labeling information in section 2 :

The following regulations have been taken into account :

- Règlement (CE) n°1272/2008 modifié par le règlement (UE) n° 487/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 758/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 944/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 605/2014
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 1297/2014

- Information about the packaging:

No data available.

- Particular dispositions :

No data available.

15.2. Chemical safety assessment

No data available.

Rubrique 16 : ANOTHER INFORMATIONS

Abréviations :

ADR : Accord européen relatif au transport international de marchandises Dangereuses par la Route.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

OACI : Organisation de l'Aviation Civile Internationale.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT : Persistante, bioaccumulable et toxique.

vPvB : Très persistante et très bioaccumulable.

SVHC : Substance of Very High Concern

Historical

Date of publication : may 2022

Date of the previous edition : September 2020



Fiche de données de sécurité conforme au règlement (CE) n°1907/2006 (REACH), n°2015/830

SAFETY DATA SHEET

Rubrique 1 : IDENTIFICATION OF THE SUBSTANCE, THE PREPARATION AND THE COMPANY

1.1 Identification of the substance / mixture

ROUGE VERMILLON

1.2 Relevant identified uses of the substance or mixture and uses advised against

Coloring material for building materials and use of creative hobbies

1.3 Manufacturer information

SOCIÉTÉ DES OCRES DE FRANCE

200 Chemin des Ocriers

84400, APT – France

www.ocres-de-france.com / infos@ocres-de-france.com / +33 (0)4.90.74.63.82

1.4 Emergency number

www.centres-antipoison.net 01 40 05 48 48 (centre anti-poison)

Rubrique 2 : IDENTIFICATION OF RISKS

2.1 Classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008 and its adjustments

This mixture is not classified as dangerous according to Directive 67/548 / EEC and its amendments.

For more details on health consequences and symptoms, see section 11.

2.2 Labeling elements in accordance with Regulation (EC) No 1272/2008 and its adaptations

No labeling element is required.

2.3 Another dangers

The mixture does not meet the criteria for PBT or vPvB substances according to Annex XIII of REACH Regulation (CE) No 1907/2006.

Rubrique 3 : COMPOSITION / INFORMATION ON COMPONENTS

CI : R3

Composition : mix of azoic pigment and calcium carbonate

Substance / préparation : preparation

Numéros cas : no

Numéros einecs : no

To the present knowledge of the supplier, this product does not contain any ingredients that are hazardous to require a statement in this section, in accordance with EU regulations or national regulations.
REACH : this preparation is not subject to REACH.

Rubrique 4 : FIRST AID

Transport the person to the fresh air. In case of fainting, place the person in a lateral safety position.
Immediately flush eyes with plenty of water, occasionally lifting the eyelids. Check if the victim wears contact lenses and in this case remove them.
If irritation occurs, consult a doctor.

Rubrique 5 : FIRE FIGHTING MEASURES

The mixture is not flammable. In case of fire, spray with water (in fog), foam, dry chemical or carbon dioxide.

Rubrique 6 : MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL RELEASE

Provide adequate ventilation. Put on appropriate personal protective equipment.
Avoid dispersal and spillage of the spilled product and contact with soil, surrounding aquatic environment, sewers or drains.

Rubrique 7 : HANDLING AND STORAGE

No special measures required.

Rubrique 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Wash hands, forearms and face after handling product.
Recommended : dust mask
Avoid contact with eyes. Use eye protection in accordance with an approved standard.
Personal protective equipment for the body should be selected according to the task to be performed and the risks involved.

Rubrique 9 : PHYSICAL AND CHEMICAL PROPERTIES

General informations

Physical state : powder
Color : red
Odor : odorless
PH : no available
Melting point : not available
Bulk density : 1185 g/l
Solubility : insoluble

Rubrique 10 : STABILITY AND REACTIVITY

The product is stable.

Under normal conditions of storage and use, no hazardous decomposition products should appear.

Rubrique 11 : TOXICOLOGICAL INFORMATION

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : Exposure to atmospheric concentrations above

Statutory or recommended exposure limits may possibly lead to eye irritation.

If the product is handled properly, it has no harmful effects according to our experiences and information.

Rubrique 12 : ECOLOGICAL INFORMATION

No known significant effects or critical hazards.

The product is not biodegradable. Do not dispose in nature and sewers.

Rubrique 13 : CONSIDERATIONS RELATING TO ELIMINATION

In general : Check the suitability of the product for reuse. Uncleaned waste and uncleaned packaging must be packed or closed, labeled and disposed of at a destruction or recycling center in accordance with the national legislation in force. Consult the manufacturer in case of large quantities. If uncleaned empty containers are forwarded, inform the consignee of the possible risks due to the residues of the product. For disposal within the EU, use the waste code in force according to the European Waste List (LED). All waste producers are required, among other things, to classify their waste according to the category and process code of the European Waste List (LED).

To the present knowledge of the supplier, this product is not considered a hazardous waste as defined by EU Directive 91/689 / EEC.

Rubrique 14 : TRANSPORT

This product is not subject to labeling. No special conditions

Rubrique 15 : REGULATORY INFORMATION**15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture**

- Classification and labeling information in section 2 :

The following regulations have been taken into account :

- Règlement (CE) n°1272/2008 modifié par le règlement (UE) n° 487/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 758/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 944/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 605/2014
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 1297/2014
- Information about the packaging:

No data available.

- Particular dispositions :

No data available.

15.2. Chemical safety assessment

No data available.

Rubrique 16 : ANOTHER INFORMATIONS

Abréviations :

ADR : Accord européen relatif au transport international de marchandises Dangereuses par la Route.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

OACI : Organisation de l'Aviation Civile Internationale.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT : Persistante, bioaccumulable et toxique.

vPvB : Très persistante et très bioaccumulable.

SVHC : Substance of Very High Concern

Historical

Date of publication : may 2022

Date of the previous edition : / fébruary 2020





SOCIETE DES OCRES DE FRANCE

ROSSO VENETO

Revision nr. 01/18

Dated 25/01/2018

Printed on 25/01/2018

Page n. 1/8

Information Sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name ROSSO VENETO

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Dispersible pigment in aqueous solution, oils and resins

1.3. Details of the supplier of the safety data sheet

Name

Full address

District and Country

Société des Ocres de France

200 chemin des ocriers – 84400 APT (France)

Tel : +33(0)4 90 74 63 82

infos@ocres-de-france.com

Stephanie Angles

e-mail address of the competent person
responsible for the Safety Data Sheet

1.4. Emergency telephone number

For urgent inquiries refer to

Centre anti-poison 01 40 05 48 48

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication: Not Classified.

2.2. Label elements

Hazard pictograms: --

Signal words: --

Hazard statements:

--

Precautionary statements:

--

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.



SOCIETE DES OCRES DE FRANCE

ROSSO VENETO

Revision nr. 01/18

Dated 25/01/2018

Printed on 25/01/2018

Page n. 2/8

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant.

3.2. Mixtures

It does not contain any specific classifications for the sake of the environment or for the sake of disposing of the Regulation (EU) 1272/2008 (CLP) (and subsequent amendments and adjustments) in quantitative terms of the declaration.

SECTION 4. First aid measures

4.1. Description of first aid measures

The product is not classified as dangerous according to the provisions of reg. (EC) 1272/2008 (CLP). However, for the sake of precaution, the following first aid measures are provided.

EYES: Remove any contact lenses. Wash with water for at least 15 minutes.

SKIN: Remove contaminated clothing from behind. Have a shower.

INGESTION: Do not administer anything that is not expressly authorized by the doctor.

4.2. Most important symptoms and effects, both acute and delayed

No specific information is known about the symptoms and effects caused by the product. For symptoms and effects due to the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

If there are no contraindications, spray powder with water to prevent the formation of dust.



SOCIETE DES OCRES DE FRANCE

ROSSO VENETO

Revision nr. 01/18

Dated 25/01/2018

Printed on 25/01/2018

Page n. 3/8

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. If the product is flammable, use explosion-proof equipment. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Do not inhale any dust, vapors or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid dispersion of the product in the environment.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container. Keep the containers tightly closed. Keep the product in clearly labeled containers. Keep containers away from incompatible materials, checking section 10.

7.3. Specific end use(s)

See section 1.2.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Information not available

8.2. Exposure controls

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION

None required.

SKIN PROTECTION

None required.

EYE PROTECTION

None required.

RESPIRATORY PROTECTION

None required.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	powder
Colour	red
Odour	mild characteristic
Odour threshold	Not available
pH	not applicable
Melting point / freezing point	not applicable
Initial boiling point	not applicable
Boiling range	not applicable
Flash point	Not inflammable.
Evaporation Rate	not applicable
Flammability of solids and gases	Not inflammable.
Lower inflammability limit	Not inflammable.
Upper inflammability limit	Not inflammable.
Lower explosive limit	Not explosive.
Upper explosive limit	Not explosive.
Vapour pressure	not applicable
Vapour density	not applicable
Relative density	2.60 gr/cm ³
Solubility	Insoluble in water
Partition coefficient: n-octanol/water	not applicable
Auto-ignition temperature	Not self-igniting.
Decomposition temperature	Not available
Viscosity	not applicable
Explosive properties	Not explosive.
Oxidising properties	Not available

9.2. Other information

No other information.

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Dangerous reactions are not expected under normal use and storage conditions.

10.4. Conditions to avoid

None in particular. However, follow the usual precautions with regard to chemicals.

10.5. Incompatible materials

Information not available.

10.6. Hazardous decomposition products

Information not available.



SOCIETE DES OCRES DE FRANCE

ROSSO VENETO

Revision nr. 01/18

Dated 25/01/2018

Printed on 25/01/2018

Page n. 5/8

SECTION 11. Toxicological information

11.1. Information on toxicological effects

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled according to good industrial practices.

ACUTE TOXICITY

LC50 (Inhalation - vapors) of the mixture: Not classified (no significant component).

LC50 (Inhalation - mists / powders) of the mixture: Not classified (no significant component).

LD50 (Oral) of the mixture: Not classified (no significant component).

LD50 (Cutaneous) of the mixture: Not classified (no significant component).

Acute toxicity

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Skin corrosion / skin irritation

On the basis of the available data and considering the classification criteria provided in Table 3.2.3 of Annex I, of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Serious eye damage / eye irritation

On the basis of the available data and considering the classification criteria provided in Table 3.3.3 of Annex I of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Respiratory or skin sensitization

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Germ cell mutagenicity

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Carcinogenicity

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Reproductive toxicity

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Specific target organ toxicity (STOT) - single exposure

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Specific target organ toxicity (STOT) - repeated exposure

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

Danger in case of aspiration

On the basis of the available data and considering the classification criteria of Annex I, Part 3 of Reg. (EC) 1272/2008 and s.m.i., the product is not classified for this hazard class.

SECTION 12. Ecological information

12.1. Toxicity

Based on the evaluation of the classification of components and the classification provisions of Annex I, Part 4 of Reg. (EC) 1272/2008 and s.m.i., the mixture is not classified as dangerous for the environment;

12.2. Persistence and degradability

No data available.



SOCIETE DES OCRES DE FRANCE

ROSSO VENETO

Revision nr. 01/18

Dated 25/01/2018

Printed on 25/01/2018

Page n. 6/8

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

No data available.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Solid residues may be suitable for disposal in an authorised landfill site.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

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

Information not relevant



SOCIETE DES OCRES DE FRANCE

ROSSO VENETO

Révision nr. 01/18

Dated 25/01/2018

Printed on 25/01/2018

Page n. 7/8

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

None

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%



00523-2112

MATERIAL SAFETY DATA SHEET FOR NATURAL IRON OXIDE BLACK SB 890

SECTION 1

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product (material) name : Iron Oxide BLACK SB 890

Other names : Iron Oxide

Supplier name/address/telephone no./Emergency phone number:

Société des Ogres de France
200 chemin des ocriers - 84400 APT (France)
Tel : 04 90 74 63 82 (office) / 01 40 05 48 48 (centre anti-poison)
mail: infos@ocres-de-france.com

SECTION 2

HAZARDS IDENTIFICATION

Hazard classification, including a statement of overall hazardous or dangerous nature:

- **Hazardous Substance and Dangerous Goods**

Risk phrase(s) :

Harmful if inhaled, affects respiratory System. May Cause irritation to eyes and respiratory Tract.

Safety phrase(s):

Store in a cool , dry ,ventilated area. Protect against Physical Damage

- **Inhalation:** May Cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.
- **Ingestion:** Extremely large oral dosages may produce gastro-intestinal disturbances
- **Skin contact:** No adverse effects expected
- **Eye Contact:** May Cause mechanical irritation
- **Chronic exposure :** Long term inhalation to iron oxide has resulted in mottling of lungs, a condition referred to as siderosis. This is considered a benign pneumoconiosis and does not ordinarily cause significant physiological impairment. Long term eye contact may stain eyes and leave a "rust ring".

Aggravation of Pre existing conditions: Persons with impaired respiratory function may be more susceptible to the effects of the substance.

- **Health rating: 1 –Slight**
- **Flammability Rating : 0 –none**
- **Reactivity Rating : 1 (Slight)**
- **Contact Rating : 1- Slight**
- **Lab protective Equipment: Goggles, Lab Coat**
- **Storage Colour Code : Black (General Storage)**



SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS SUBSTANCE

Chemical identity of the pure substance	: Fe₃O₄
Common name(s), synonym(s)	: Iron Oxide BLACK,
CAS Number(s)	: 1309-38-2

MIXTURE

Chemical identity of ingredients	Fe₂O₃	SiO₂	CaO	MgO	Al₂O₃	FeO
Proportion of ingredients	70-80%	6-8%	1-3%	0.1%	0.2-1%	0.3%
CAS Number(s) for ingredients						
Fe₂O₃ – 1309-38-2						
SiO₂ - 763-86-9						
CaO - 1305-78-8						
MgO - 1309-48-4						
Al₂O₃ – 1344-28-1						

SECTION 4 FIRST AID MEASURES

- **Inhalation:** Move to Fresh Air Area. Get Medical attention for any breathing difficulty
- **Ingestion:** If large amount were swallowed, give water to drink and get medical advice
- **Skin Contact:** Wash exposed area with soap water. Get medical advice if irritation develops.
- **Eye Contact:** Immediately flush eyes with plenty water for atleast 15mins. Get Medical attention if irritation Persists.

SECTION 5 FIRE FIGHTING MEASURES

- **Fire :** Not expected to be a fire hazard
- **Explosion :** No information Found
- **Fire Extinguishing Media :** Use any means suitable for extinguishing surrounding fire.
- **Special Information:** In the event of fire, wear full protective clothing and NIOSH approved self contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- **Emergency procedures :** Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in section 8
- **Methods and materials for containment and clean up:** Pick up and place in a suitable container for reclamation or disposal using a method that does not generate dust.



SECTION 7 HANDLING AND STORAGE

- **Precautions for safe handling :** Keep in a tightly closed container. Store in a cool ,dry and ventilated area. Protect against physical damage.
- **Conditions for safe storage, including any incompatibilities :** Containers of this material may be hazardous when empty since they retain product residues (dust,solids).Observe all the warnings and precaution listed for the product

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Airborne Exposure Limits** , OSHA Permissible Exposure Limit (PEL) - Iron Oxide fume : 10mg/m3
- **ACGIH Threshold Limit Value (TLV)** - Iron Oxide(Fe_2O_3) : 5mg/m3(TWA) respirable fraction
- **A4** – Not classifiable as a human carcinogen

Ventilation System :

A system of local and or general exhaust is recommended to keep employee exposures below the air borne exposure limits. Local Exhaust Ventilation is generally preferred because it can control the emissions of the contaminants at source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of recommended Practices, Most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type 95 or better filters) may be worn for up to 10 times the exposure limits or the maximum use concentration specified by appropriate regulatory agency or respirator supplier whichever is lowest.

A full facepiece particulate respirator (NIOSH type N100 filters) may be worn up to 50times the exposure limit, or the maximum use concentration specified by appropriate regulatory agency or respirator supplier whichever is lowest.

If oil particles (e.g. lubricants, cutting fluids, glycerine etc) are present, use NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use full face piece positive pressure, air supplied respirator.

Warning: Air Purifying Respirators do not protect workers in oxygen deficient atmosphere.

- **Skin Protection :** Wear gloves and clean body covering clothing.
- **Eye Protection:** Use Chemical Safety Goggles. Maintain eye wash fountain and quick drench facilities in work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance (colour, physical form, shape).** : Blackish Powder
- **Odour.** : Odour less
- **pH.** : 7



- Vapour pressure. No information Found
- Vapour density.: No Information Found
- Boiling point/range. : Not Applicable
- Melting point : 1250 deg cent.
- Solubility (specify solvent, e.g. water).: <0.1% in water
- Specific gravity : 3
- Information for flammable materials, including:
- Flash point and method of detecting flash point; : No information Found
- Upper and lower flammable (explosive) limits in air : No information found
- Ignition temperature. : No information found
- Additional information
- Specific heat value. : No information found
- Particle size. : 44microns
- Volatile organic compounds (VOC) content. : Nil at room temperature
- Evaporation rate.: No information Found
- Viscosity. : Not Applicable
- Percent volatile. : 1% Max. at 105 deg. Centigrade
- Octanol/water partition coefficient. : No information Found
- Saturated vapour concentration (include reference temperatures). : Not Applicable
- Additional characteristics not noted above may also be provided if applicable to the material. : Nil
- Flame propagation or burning rate of solid materials. : Nil
- Properties of both flammable and non-flammable materials that may initiate or uniquely contribute to the intensity of a fire (e.g. Class 4 or Class 5).: Nil information available
- Potential for dust explosion. : Nil
- Reactions that release flammable gases or vapours. : Nil
- Fast or intensely burning characteristics. : NIL
- Non-flammables that could contribute unusual hazards to a fire, such as strong oxidizing and reducing agents or peroxide formers. Not Applicable
- Release of invisible flammable vapours and gases. : NIL
- Decomposition temperature. : No decomposition at room temperature

SECTION 10 STABILITY AND REACTIVITY

- Chemical stability : Stable under ordinary conditions of use and storage
- Conditions to avoid : Incompatibles
- Incompatible materials : Carbon Monoxide,Hydrazine,Calcium hypochloride, performic acid, bromine penta fluoride
- Hazardous decomposition products : No information available
- Hazardous reactions : Polymerisations will not occur



SECTION 11 TOXICOLOGICAL INFORMATION

Health effects from the likely routes of exposure : No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as Tumorigen.

- Ingredient : Iron Oxide Fe₂O₃ (1309-37-1)
- **NTP carcinogen:**
- Known : No
- Anticipated : No
- IARC Category : 3

SECTION 12 ECOLOGICAL INFORMATION

- Ecotoxicity : No information found
- Environmental fate (exposure) : No Information Found

SECTION 13 DISPOSAL CONSIDERATIONS

- **Disposal methods and containers :**

Whatever can not be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change waste management options. State and local disposal regulations may differ from federal disposal regulations.

Dispose of container and unused contents in accordance with federal, state and local requirements.

- **Special precautions for landfill or incineration :** Nil

SECTION 14 TRANSPORT INFORMATION

Not regulated

SECTION 15 REGULATORY INFORMATION

The regulatory status of a material (including its ingredients) under relevant Australian health, safety and environmental legislation.

Chemical Inventory Status – Part – I
Ingredient : Iron Oxide (Fe₂O₃) (1309-37-1)
Australia : Yes
TSCA – Yes
EC – Yes
Japan : Yes

**Chemical Inventory Status – Part – 2**

Korea – Yes
DSL – Yes
NDSL : No
Phil - Yes

Federal .State & International regulations – Part 1

SARA 302
SARA 313

Chemical Weapons Convention : No
TSCA 12(b) : No
CDTA : No

SARA311/312 :

Acute : Yes , Chronic : Yes, Fire : No, Pressure : No, Reactivity : No.,(Pure/Solid)

Australian Hazchem Code : None allocated

Poison Schedule : None Allocated

WHMIS: This MSDS has been prepared according to the hazard criteria of the controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Additional information

☐ Additional national and/or international regulatory information. : Nil

SECTION 16**OTHER INFORMATION****NFPA Ratings :**

Health : 1
Flammability : 0
Reactivity : 0

Label Hazard Warning:

Warning: Harmful if inhaled. Affects respiratory system. May cause irritation, to eyes and respiratory tract.

Label Precautions:

Avoid Contact with Eyes, skin & clothing
Wash thoroughly after handling
Avoid Handling Dust
Keep Container Closed
Use only with adequate Ventilation

**Label First Aid:**

If inhaled, move to fresh air. Get Medical attention for any breathing difficulty. In case of eye contact, immediately flush eyes with plenty of water for atleast 15mins. Get medical attention if irritation develops/persists .

- **Product Use : For Industrial Use**
- **Source of Information : Our Technical Department , Internet search**
- **Date of Preparation of MSDS : 01/04/2008**
- **Revision Information : 0**

The information provided is based on the current state of knowledge. This data sheet of security describes the product solely from the aspect of security. The data above does not have the value of warranty regarding the composition, properties or performance of the products.

SAFETY DATA SHEET**Ti-Pure™ R-900 Titanium Dioxide Pigment**

Version 1.11 Revision Date: 27.08.2021 SDS Number: 1598192-00012 Date of last issue: 08.10.2020
Date of first issue: 26.04.2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Ti-Pure™ R-900 Titanium Dioxide Pigment

SDS-Identcode : 130000030873

Manufacturer or supplier's details

Company : Chemours Netherlands B.V.

Address : Baanhoekweg 22
3313 LA Dordrecht Netherlands

Telephone : +31-(0)-78-630-1011

Emergency telephone number : +(44)-870-8200418 (CHEMTREC - Recommended)

E-mail address : sds-support@chemours.com

Telefax : +31-78-6163737

Recommended use of the chemical and restrictions on use

Recommended use : Colouring agent
Pigment

Restrictions on use : For industrial use only.

2. HAZARDS IDENTIFICATION**GHS Classification**

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Titanium dioxide	13463-67-7	$\geq 90 - \leq 100$
Aluminium hydroxide	21645-51-2	$\geq 1 - < 5$

4. FIRST AID MEASURES

SAFETY DATA SHEET**Ti-Pure™ R-900 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: 08.10.2020
1.11	27.08.2021	1598192-00012	Date of first issue: 26.04.2017

If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	irritant effects
Protection of first-aiders	:	No special precautions are necessary for first aid responders.
Notes to physician	:	Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Not applicable Will not burn
Unsuitable extinguishing media	:	Not applicable Will not burn
Specific hazards during fire-fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion products	:	Metal oxides
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment.

SAFETY DATA SHEET



Ti-Pure™ R-900 Titanium Dioxide Pigment

Version 1.11 Revision Date: 27.08.2021 SDS Number: 1598192-00012 Date of last issue: 08.10.2020
 Date of first issue: 26.04.2017

Prevent further leakage or spillage if safe to do so.
 Retain and dispose of contaminated wash water.
 Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.
 Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
 Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
 Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep in properly labelled containers.
 Store in accordance with the particular national regulations.

Materials to avoid : No special restrictions on storage with other products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Titanium dioxide	13463-67-7	TWA	10 mg/m ³ (Titanium dioxide)	ACGIH
Aluminium hydroxide	21645-51-2	TWA (Respirable particulate matter)	1 mg/m ³ (Aluminium)	ACGIH

Engineering measures : Ensure adequate ventilation, especially in confined areas.
 Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the rec-

SAFETY DATA SHEET**Ti-Pure™ R-900 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: 08.10.2020
1.11	27.08.2021	1598192-00012	Date of first issue: 26.04.2017

ommended guidelines, use respiratory protection.

Filter type	:	Particulates type
Hand protection	:	
Remarks	:	Wash hands before breaks and at the end of workday.
Eye protection	:	Wear the following personal protective equipment: Safety glasses
Skin and body protection	:	Skin should be washed after contact.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	solid
Colour	:	white
Odour	:	odourless
Odour Threshold	:	No data available
pH	:	No data available
Melting point/freezing point	:	1,843 °C
Initial boiling point and boiling range	:	3,000 °C
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Will not burn
	:	Not expected to form explosive dust-air mixtures.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available

SAFETY DATA SHEET**Ti-Pure™ R-900 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: 08.10.2020
1.11	27.08.2021	1598192-00012	Date of first issue: 26.04.2017

Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	3.4 - 4.3
Density	:	4.050 g/cm ³
Solubility(ies)	:	
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	The substance or mixture is not classified self-reactive.
Viscosity	:	
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Particle size	:	No data available

10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	None known.
Conditions to avoid	:	None known.
Incompatible materials	:	None.
Hazardous decomposition products	:	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Skin contact Ingestion Eye contact
--	---	--

Acute toxicity

Not classified based on available information.

SAFETY DATA SHEET**Ti-Pure™ R-900 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: 08.10.2020
1.11	27.08.2021	1598192-00012	Date of first issue: 26.04.2017

Components:**Titanium dioxide:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat): > 6.82 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Acute toxicity estimate (Rat): > 2,000 mg/kg
Method: Expert judgement
Assessment: The substance or mixture has no acute dermal toxicity

Aluminium hydroxide:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 423
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 5.09 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Based on data from similar materials

Skin corrosion/irritation

Not classified based on available information.

Components:**Titanium dioxide:**

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Aluminium hydroxide:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:**Titanium dioxide:**

Species : Rabbit
Method : OECD Test Guideline 405

SAFETY DATA SHEET**Ti-Pure™ R-900 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: 08.10.2020
1.11	27.08.2021	1598192-00012	Date of first issue: 26.04.2017

Result : No eye irritation

Aluminium hydroxide:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:**Titanium dioxide:**

Test Type : Buehler Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : negative

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : negative

Exposure routes : Inhalation
Species : Mouse
Result : negative

Exposure routes : Inhalation
Species : Humans
Result : negative

Aluminium hydroxide:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : negative

Germ cell mutagenicity

Not classified based on available information.

Components:**Titanium dioxide:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471

SAFETY DATA SHEET**Ti-Pure™ R-900 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: 08.10.2020
1.11	27.08.2021	1598192-00012	Date of first issue: 26.04.2017

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: negative

Test Type: comet assay

Method: OPPTS 870.5140

Result: positive

Genotoxicity in vivo

: Test Type: In vivo mammalian alkaline comet assay

Species: Rat

Application Route: intratracheal

Method: OECD Test Guideline 489

Result: negative

Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)

Species: Rat

Application Route: Ingestion

Method: OECD Test Guideline 474

Result: negative

Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)

Species: Mouse

Application Route: Intraperitoneal injection

Method: OECD Test Guideline 475

Result: negative

Test Type: Transgenic rodent germ cell gene mutation assay

Species: Mouse

Application Route: Intravenous injection

Method: OECD Test Guideline 488

Result: negative

Germ cell mutagenicity -
Assessment

: Weight of evidence does not support classification as a germ cell mutagen.

Aluminium hydroxide:

Genotoxicity in vitro

: Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

Test Type: Chromosome aberration test in vitro

Result: positive

Remarks: Based on data from similar materials

Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)

SAFETY DATA SHEET**Ti-Pure™ R-900 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: 08.10.2020
1.11	27.08.2021	1598192-00012	Date of first issue: 26.04.2017

Result: equivocal
Remarks: Based on data from similar materials

Test Type: in vitro micronucleus test
Result: positive
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative

Carcinogenicity

Not classified based on available information.

Product:

Remarks : In lifetime inhalation studies rats were exposed for 2 years to respectively 10, 50 and 250 mg/m³ of respirable TiO₂. Slight lung fibrosis was observed at 50 and 250 mg/m³ levels. Microscopic lung tumours were also observed in 13 percent of the rats exposed to 250 mg/m³, an exposure level that caused lung overloading and impairment of rat lungs clearance mechanisms.

In further studies, these tumours were found to occur only under particle overload conditions in a uniquely sensitive species, the rat, and have little or no relevance for humans. The pulmonary inflammatory response to TiO₂ particles exposure was also found to be much more severe in rats than in other rodent species.

In February 2006, IARC has re-evaluated Titanium dioxide as pertaining to Group 2B: "possibly carcinogenic to humans", based upon inadequate evidence in humans and sufficient evidence in experimental animals for the carcinogenicity of titanium dioxide. IARC evaluation guidelines consider the generation of tumours, in 2 different studies within the same animal species, to be adequate criteria for an assessment of sufficient evidence.

The conclusions of several epidemiology studies on more than 20000 TiO₂ industry workers in Europe and the USA did not suggest a carcinogenic effect of TiO₂ dust on the human lung. Mortality from other chronic diseases, including other respiratory diseases, was also not associated with exposure to TiO₂ dust.

Based upon all available study results, Chemours scientists conclude that titanium dioxide will not cause lung cancer or chronic respiratory diseases in humans at concentrations experienced in the workplace.

Components:**Titanium dioxide:**

Species : Rat

SAFETY DATA SHEET**Ti-Pure™ R-900 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: 08.10.2020
1.11	27.08.2021	1598192-00012	Date of first issue: 26.04.2017

Application Route : inhalation (dust/mist/fume)
 Exposure time : 2 Years
 Result : negative

Species : Rat
 Application Route : Ingestion
 Exposure time : 105 weeks
 Result : negative

Species : Mouse
 Application Route : Ingestion
 Exposure time : 103 weeks
 Result : negative

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

Aluminium hydroxide:

Species : Rat
 Application Route : inhalation (dust/mist/fume)
 Exposure time : 86 weeks
 Result : negative
 Remarks : Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

Components:**Titanium dioxide:**

Effects on fertility : Test Type: One-generation reproduction toxicity study
 Species: Rat
 Application Route: Ingestion
 Method: OECD Test Guideline 443
 Result: negative

Effects on foetal development : Test Type: Prenatal development toxicity study (teratogenicity)
 Species: Rat
 Application Route: Ingestion
 Method: OECD Test Guideline 414
 Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

Aluminium hydroxide:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
 Species: Rat
 Application Route: Ingestion
 Method: OECD Test Guideline 422
 Result: negative

SAFETY DATA SHEET**Ti-Pure™ R-900 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: 08.10.2020
1.11	27.08.2021	1598192-00012	Date of first issue: 26.04.2017

Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development
 Species: Rat
 Application Route: Ingestion
 Result: negative

STOT - single exposure

Not classified based on available information.

Components:**Titanium dioxide:**

Exposure routes : Skin contact
 Assessment : No significant health effects observed in animals at concentrations of 2000 mg/kg bw or less

Exposure routes : Ingestion
 Assessment : No significant health effects observed in animals at concentrations of 2000 mg/kg bw or less

Exposure routes : inhalation (dust/mist/fume)
 Assessment : No significant health effects observed in animals at concentrations of 5.0 mg/l/4h or less

STOT - repeated exposure

Not classified based on available information.

Components:**Titanium dioxide:**

Exposure routes : Ingestion
 Assessment : No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Exposure routes : inhalation (dust/mist/fume)
 Assessment : No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

Exposure routes : Ingestion
 Assessment : No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.

Repeated dose toxicity**Components:****Titanium dioxide:**

Species : Rat, male and female
 NOAEL : 24,000 mg/kg
 LOAEL : > 24,000 mg/kg
 Application Route : Ingestion
 Exposure time : 28 Days
 Method : OECD Test Guideline 407

SAFETY DATA SHEET**Ti-Pure™ R-900 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: 08.10.2020
1.11	27.08.2021	1598192-00012	Date of first issue: 26.04.2017

Remarks : No significant adverse effects were reported

Species : Rat, male and female
 NOAEL : 0.01 mg/l
 LOAEL : 0.5 mg/l
 Application Route : inhalation (dust/mist/fume)
 Exposure time : 24 Months
 Method : OECD Test Guideline 453
 Remarks : No significant adverse effects were reported

Species : Rat, male and female
 NOAEL : 962 mg/kg
 LOAEL : > 962 mg/kg
 Application Route : Ingestion
 Exposure time : 90 Days
 Method : OECD Test Guideline 408
 Remarks : No significant adverse effects were reported

Aluminium hydroxide:

Species : Rat
 NOAEL : > 100 mg/kg
 Application Route : Ingestion
 Exposure time : 364 Days
 Method : OECD Test Guideline 426
 Remarks : Based on data from similar materials

Species : Rat
 NOAEL : > 0.2 mg/kg
 Application Route : inhalation (dust/mist/fume)
 Exposure time : 12 Months
 Remarks : Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

Components:**Titanium dioxide:**

No aspiration toxicity classification

12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Titanium dioxide:**

Toxicity to fish : LC50 (Fish): > 1,000 mg/l
 Exposure time: 96 h
 Method: OECD Test Guideline 203

 LC50 (Marine species): > 10,000 mg/l
 Exposure time: 96 h

SAFETY DATA SHEET**Ti-Pure™ R-900 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: 08.10.2020
1.11	27.08.2021	1598192-00012	Date of first issue: 26.04.2017

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia sp. (water flea)): > 1,000 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

EC50 (No species specified): > 1,000 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l
Exposure time: 72 h
Method: ISO 10253

NOEC (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 3 d
Method: OECD Test Guideline 201

NOEC (Skeletonema costatum (marine diatom)): 5,600 mg/l
Exposure time: 3 d
Method: ISO 10253

Aluminium hydroxide:

Toxicity to fish : LL50 (Salmo trutta (brown trout)): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EL50 (Selenastrum capricornutum (green algae)): > 100 mg/l
Exposure time: 96 h

Persistence and degradability

No data available

Bioaccumulative potential**Components:****Titanium dioxide:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): 352

Mobility in soil

No data available

SAFETY DATA SHEET**Ti-Pure™ R-900 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: 08.10.2020
1.11	27.08.2021	1598192-00012	Date of first issue: 26.04.2017

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture****16. OTHER INFORMATION**

Other information : Ti-Pure™ and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC.
Chemours™ and the Chemours Logo are trademarks of The Chemours Company.
Before use read Chemours safety information.
For further information contact the local Chemours office or nominated distributors.
These products may not be directly added to food, pharmaceuticals, cosmetics, or cigarette papers/filters for tobacco products.
Do not use or resell Chemours™ materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless agreed to by Seller in a written agreement covering such use. For further information, please contact your Chemours representative.

SAFETY DATA SHEET



Ti-Pure™ R-900 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number:	Date of last issue: 08.10.2020
1.11	27.08.2021	1598192-00012	Date of first issue: 26.04.2017

In the manufacture of titanium dioxide, product is packaged at temperatures of approximately 100 to 120°C (212 to 248°F). When pigment is shipped shortly after manufacture, it may stay hot for a very long time depending on ambient temperatures and inventory storage practices. Use caution while handling hot pigment to prevent burns to personnel. Use caution in solvent applications to prevent ignition of solvent.

Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS mate-

SAFETY DATA SHEET**Ti-Pure™ R-900 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: 08.10.2020
1.11	27.08.2021	1598192-00012	Date of first issue: 26.04.2017

Material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

AE / EN