

# 1 Identification Product identifier

- Trade name: 57-11-B1 fl. pink Relevant identified uses of the substance or mixture and uses advised against Currently no such applications are identified Application of the substance / the mixture Highlighter Ink water based highlighter ink Lineliter Fax Ink · Details of the supplier of the safety data sheet • Manufacturer/Supplier: SHANGHAI DOKUMENTAL INK Co. Ltd. 18-3, Mao Jia Road No. Luodian Town, Baoshan District Shanghai 201908 , P.R. China Tel.: 86-21-66864551 / 66864542 Information department: Ms. Cindy Song Email: cindy.song@dokumental.cn Emergency telephone number: Mr. Bruce Gindelberger Tel.: mobile +86-13917914495 Email: bruce.gindelberger@dokumental.cn
  - 24-hour-Emergency- Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500

# 2 Hazard(s) identification

Classification of the substance or mixture The product is not classified according to the Globally Harmonized System (GHS). Label elements GHS label elements Void Hazard pictograms Void Signal word Void Hazard statements Void Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire Reactivity = 00 Ω *HMIS-ratings* (scale 0 - 4) 0 HEALTH Health = 0FIRE 1 Fire Reactivity = 0REACTIVITY 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. **vPvB:** Not applicable.

# 3 Composition/information on ingredients

Chemical characterization: Mixtures

- Mixture of the following substances, containing non-hazardous substances and colouring agents.
- Description: Mixture of the substances listed below with nonhazardous additions.
- Dangerous components: Void
- Additional information: For the wording of the listed risk phrases refer to section 16.

#### 4 First-aid measures

Description of first aid measures

- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin. After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed

No further relevant information available.

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- Indication of any immediate medical attention and special treatment needed No further relevant information available.
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- 5 Fire-fighting measures
- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing. **Environmental precautions:** Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Reference to other sections
- No dangerous substances are released.
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- 7 Handling and storage
- · Handling:
- Precautions for safe handling
- No special measures required.
- Ensure good ventilation/exhaustion at the workplace. Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- Control parameters
- Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed. Breathing equipment: Not required.
- Protection of hands:
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the
- preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and
- the degradation Material of gloves
- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several the resistance of the glove material can not be calculated in advance and has therefore substances, to be checked prior to the application. Penetration time of glove material
- - The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. (Contd. on page 3)

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· Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties		
9 Physical and chemical properties		
<ul> <li>Information on basic physical and chemical pro</li> <li>General Information</li> </ul>	operties	
· Appearance:		
Form: Color:	Fluid	
· Odor:	According to product specification Product specific	
· Odour threshold:	Not determined.	
<ul> <li>Important information on protection of health environment, and on safety.</li> </ul>	and _	
· pH-value at 20 °C (68 °F):	7.6	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
· Flash point:	160 °C (320 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	400 °C (752 °F)	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)	
· Density at 20 °C (68 °F):	1.05 g/cm³ (8.762 lbs/gal)	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate Not determined.		
· Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Water:	79.8 %	
Solids content:	0.1 %	
· Other information	The physical and chemical properties given in	
	Section 9.1 are rough data only, which are	
	partially derived from the component's data of	
	the mixture. These data are no binding product specifications.	
	Specifications.	

#### 10 Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

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# 11 Toxicological information Information on toxicological effects Acute toxicity:

#### Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: No irritating effect
- Sensitization: No sensitizing effects known. Additional toxicological information:
- The product is not subject to classification according to internally approved calculation methods for preparations:
- When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

- IARC (International Agency for Research on Cancer)
- None of the ingredients is listed.
- NTP (National Toxicology Program)
- None of the ingredients is listed.
- OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed.

#### 12 Ecological information

Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable. Other adverse effects No further relevant information available.

#### 13 Disposal considerations

Waste treatment methods

Recommendation: Smaller quantities can be disposed of with household waste.

Uncleaned packagings:

- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	
• Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Void	
· Packing group · DOT, ADR, IMDG, IATA	Void	
• Environmental hazards: • Marine pollutant:	No	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.	
		(Contd. on page 5)



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· UN "Model Regulation":

15 Regulatory information

$\cdot$ Safety, health and environmental regulations/legislation specific for the substance or mixture $\cdot$ Sara
· Sara · Section 355 (extremely hazardous substances):
None of the ingredient is listed.
Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.
· TSCA (Toxic Substances Control Act):
All ingredients are listed.
· Proposition 65
· Chemicals known to cause cancer:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
· Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
· DSL/NDSL (Canada) All ingredients are listed
· Cancerogenity categories
· EPA (Environmental Protection Agency)
None of the ingredients is listed.
· TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.
· MAK (German Maximum Workplace Concentration)
None of the ingredients is listed.
· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
· CHS label elements Void
<ul> <li>Hazard pictograms Void</li> <li>Signal word Void</li> </ul>
· Hazard statements Void
· National regulations:
• Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision 06/05/2015 / Abbreviations and acronyms:
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Transport of Dangerous Goods by Rail)
 ICAO: International Transport of Dangerous Goods by Rail)
 ICAO: International Contransport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 INDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transport Association
 IATA: International Air Transport Association
 ACGIF: American Conference of Governmental Industrial Hygienists
 ELINCS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 \* Data compared to the previous version altered.
 US 



# 1 Identification

- · Product identifier
- · Trade name: 57-11-C2 Fluorescent Sky Blue
- · Relevant identified uses of the substance or mixture and uses advised against Currently no such applications are identified
- Application of the substance / the mixture Lineliter Erasable Ink
- Details of the supplier of the safety data sheet Manufacturer/Supplier: SHANGHAI DOKUMENTAL INK Co. Ltd. No. 38 Lane 451 Mao Jia Road Luodian Town, Baoshan District Shanghai 201908 , P.R. China Tel.: 86-21-66864551 / 66864542 Information department: Ms. Cindy Song Email: cindy.song@dokumental.cn Emergency telephone number: Mr. Bruce Gindelburger Tel.: mobile +86-13917914495 Email: bruce.gindelberger@dokumental.cn 2 Hazard(s) identification Classification of the substance or mixture Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable. Information concerning particular hazards for human and environment: The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Classification system: The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data. Label elements Labelling according to EU guidelines: Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations according to directives on hazardous materials. Special labeling of certain preparations: Safety data sheet available for professional user on request. Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire 0 0 Reactivity = 0HMIS-ratings (scale 0 - 4) HEALTH 0 Health = 01 FIRE Fire = Reactivity = 0REACTIVITY 0 Other hazards Results of PBT and vPvB assessment **PBT:** Not applicable. **vPvB:** Not applicable. 3 Composition/information on ingredients Chemical characterization: Mixtures Mixture of the following substances, containing non-hazardous substances and colouring agents. Description: Mixture of the substances listed below with nonhazardous additions. Dangerous components: 569-64-2 C.I. Basic Green 4 ≤1.0% Additional information: For the wording of the listed risk phrases refer to section 16. 4 First-aid measures Description of first aid measures General information: No special measures required. (Contd. on page 2) USA

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Trade name: 57-11-C2 Fluorescent Sky Blue

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin. After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed
- No further relevant information available Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

# 5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

#### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing. Environmental precautions:
- Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

# 7 Handling and storage

Handling:

- Precautions for safe handling No special measures required.
- Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use (s) No further relevant information available.

#### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

Control parameter

- Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to monitored at the workplace
- $\cdot$  Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- Breathing equipment: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the

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

Material of gloves

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

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Trade name: 57-11-C2 Fluorescent Sky Blue

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- Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Goggles recommended during refilling.

# 9 Physical and chemical properties

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<ul> <li>Information on basic physical and chemical prop</li> <li>General Information</li> <li>Appearance:</li> </ul>	perties
Form:	Fluid
Color:	Blue
· Odor:	Product specific
· Odour threshold:	Not determined.
<ul> <li>Important information on protection of health a environment, and on safety.</li> </ul>	and -
· pH-value at 25 °C (77 °F):	2.8-3.8
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	Undetermined. 100 °C (212 °F)
· Flash point:	160 °C (320 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	400 °C (752 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Not determined.
· Explosion limits:	
Lower:	0.9 Vol %
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)
· Density at 25 °C (77 °F):	1.043-1.053 g/cm³ (8.704-8.787 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
<ul> <li>Partition coefficient (n-octanol/water):</li> </ul>	Not determined.
· Viscosity:	
Dynamic at 20 °C (68 °F):	1.4-2 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	19.9 %
Water:	79.9 %
Solids content:	0.2 %
· Other information	No further relevant information available.
	no farener ferevane información availabre.

# 10 Stability and reactivity

Reactivity

- Chemical stability Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

Information on toxicological effects

- Acute toxicity:
- Primary irritant effect: on the skin: No irritant effect.

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Trade name: 57-11-C2 Fluorescent Sky Blue

- (Contd. of page 3) on the eye: No irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed. 12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Behavior in environmental systems: Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Results of PBT and vPvB assessment **PBT:** Not applicable. **vPvB:** Not applicable. Other adverse effects No further relevant information available.

## 13 Disposal considerations

- Waste treatment methods
- Recommendation: Smaller quantities can be disposed of with household waste.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void
• Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Void
· Packing group · DOT, ADR, IMDG, IATA	Void
• Environmental hazards: • Marine pollutant:	No
· Special precautions for user	Not applicable.
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.

#### 15 Regulatory information

	Safety, health and environmental regulations/legislation specific for the substance or mixture Sara
•	Section 355 (extremely hazardous substances):
	None of the ingredient is listed.
•	Section 313 (Specific toxic chemical listings):
	569-64-2 C.I. Basic Green 4

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# ANSESTON #BROGSA -SHEREDES



Trade name: 57-11-C2 Fluorescent Sky Blue

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•	ic Substances Control Act):
5	dients are listed.
Propositi	
	known to cause cancer:
None of t	he ingredients is listed.
	known to cause reproductive toxicity for females:
None of t	he ingredients is listed.
Chemicals	known to cause reproductive toxicity for males:
None of t	he ingredients is listed.
Chemicals	known to cause developmental toxicity:
None of t	he ingredients is listed.
DSL/NDSL	(Canada) All ingredients are listed
Canceroge	nity categories
EPA (Envi	ronmental Protection Agency)
None of t	he ingredients is listed.
TLV (Thre	shold Limit Value established by ACGIH)
None of t	he ingredients is listed.
MAK (Germ	an Maximum Workplace Concentration)
None of t	he ingredients is listed.
NIOSH-Ca	(National Institute for Occupational Safety and Health)
None of t	he ingredients is listed.
OSHA-Ca (	Occupational Safety & Health Administration)
None of t	he ingredients is listed.
Observe t The produ materials Special 1	abeling of certain preparations:
-	ta sheet available for professional user on request.
National	regulations:
Technical	instructions (air):
Class	Share in %
NK	10-25
	<b>ard class:</b> Water hazard class 2 (Self-assessment): hazardous for water. <b>safety assessment:</b> A Chemical Safety Assessment has not been carried out.
Other is	nformation
This info	rmation is based on our present knowledge. However, this shall not constitute a quarantee

• \* Data compared to the previous version altered.

USA



#### 1 Identification Product identifier Trade name: 57-11-E5 fl. orange Relevant identified uses of the substance or mixture and uses advised against Currently no such applications are identified Application of the substance / the mixture Highlighter Ink water based highlighter ink Lineliter Fax Ink · Details of the supplier of the safety data sheet • Manufacturer/Supplier: SHANGHAI DOKUMENTAL INK Co. Ltd. 18-3, Mao Jia Road No. Luodian Town, Baoshan District Shanghai 201908 , P.R. China Tel.: 86-21-66864551 / 66864542 Information department: Ms. Cindy Song Email: cindy.song@dokumental.cn Emergency telephone number: Mr. Bruce Gindelberger Tel.: mobile +86-13917914495 Email: bruce.gindelberger@dokumental.cn 24-hour-Emergency- Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500 2 Hazard(s) identification Classification of the substance or mixture The product is not classified according to the Globally Harmonized System (GHS). Label elements GHS label elements Void Hazard pictograms Void Signal word Void Hazard statements Void Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire 0 Reactivity = 00 *HMIS-ratings* (scale 0 - 4) 0 HEALTH Health = 0FIRE 1 Fire Reactivity = 0REACTIVITY 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. **vPvB:** Not applicable. 3 Composition/information on ingredients Chemical characterization: Mixtures Mixture of the following substances, containing non-hazardous substances and colouring agents. Description: Mixture of the substances listed below with nonhazardous additions. Dangerous components: Void Additional information: For the wording of the listed risk phrases refer to section 16. 4 First-aid measures Description of first aid measures General information: No special measures required. After inhalation: Supply fresh air; consult doctor in case of complaints. After skin contact: Generally the product does not irritate the skin. After eye contact: Rinse opened eye for several minutes under running water. After swallowing: If symptoms persist consult doctor. Information for doctor: Most important symptoms and effects, both acute and delayed No further relevant information available.

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Trade name: 57-11-E5 fl. orange

Indication of any immediate medical attention and special treatment needed No further relevant information available.

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- 5 Fire-fighting measures
- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing. **Environmental precautions:** Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Reference to other sections
- No dangerous substances are released.
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- 7 Handling and storage
- · Handling:
- Precautions for safe handling
- No special measures required.
- Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None. Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- Control parameters
- Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed. Breathing equipment: Not required.
- Protection of hands:
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the
- preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and
- the degradation Material of gloves
- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several the resistance of the glove material can not be calculated in advance and has therefore substances, to be checked prior to the application. Penetration time of glove material
- The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. (Contd. on page 3)

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Trade name: 57-11-E5 fl. orange

· Eye protection: Goggles recommended during refilling.

Physical and chemical properties		
<ul> <li>Information on basic physical and chemical properties</li> <li>General Information</li> <li>Appearance:</li> </ul>		
Color:	According to product specification	
Odor:	Product specific	
Odour threshold:	Not determined.	
Important information on protection of health environment, and on safety.	and	
pH-value at 20 °C (68 °F):	7.6	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	160 °C (320 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	400 °C (752 °F)	
Decomposition temperature:	Not determined.	
Auto igniting: Product is not selfigniting.		
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)	
Density at 20 °C (68 °F):	1.05 g/cm³ (8.762 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with Water:	Fully miggible	
	Fully miscible.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity: Dynamic:	Not determined.	
Dynamic: Kinematic:	Not determined. Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Water:	79.6 %	
Solids content:	0.2 %	
Other information	The physical and chemical properties given in	
	Section 9.1 are rough data only, which are	
	partially derived from the component's data of	
	the mixture. These data are no binding product specifications.	

#### 10 Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

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Item Numbers: 68651-1003

(Contd. of page 2)



Trade name: 57-11-E5 fl. orange

(Contd. of page 3)

#### 11 Toxicological information

Information on toxicological effects

# Acute toxicity:

- Primary irritant effect: on the skin: No irritant effect.
- on the eye: No irritating effect
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- The product is not subject to classification according to internally approved calculation methods for preparations:
- When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

- IARC (International Agency for Research on Cancer)
- None of the ingredients is listed.
- NTP (National Toxicology Program)
- None of the ingredients is listed.
- OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed.

#### 12 Ecological information

Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable. Other adverse effects No further relevant information available.

#### 13 Disposal considerations

Waste treatment methods

Recommendation: Smaller quantities can be disposed of with household waste.

Uncleaned packagings:

- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information		
· UN-Number · Dot, Adr, Adn, IMDG, IATA	Void	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Void	
· Packing group · DOT, ADR, IMDG, IATA	Void	
· Environmental hazards: · Marine pollutant:	No	
· Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex I MARPOL73/78 and the IBC Code</li> </ul>	<b>of</b> Not applicable.	
		(Contd. on page 5)



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(Contd. of page 4)

Trade name: 57-11-E5 fl. orange

# · UN "Model Regulation":

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara
· Section 355 (extremely hazardous substances):
None of the ingredient is listed.
· Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.
· TSCA (Toxic Substances Control Act):
All ingredients are listed.
· Proposition 65
· Chemicals known to cause cancer:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
· Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
· DSL/NDSL (Canada) All ingredients are listed
· Cancerogenity categories
· EPA (Environmental Protection Agency)
None of the ingredients is listed.
· TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.
· MAK (German Maximum Workplace Concentration)
None of the ingredients is listed.
· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
· GHS label elements Void
<ul> <li>Hazard pictograms Void</li> <li>Signal word Void</li> </ul>
· Signal word vold · Hazard statements Vold
· National regulations:
-
• <b>Water hazard class:</b> Water hazard class 1 (Self-assessment): slightly hazardous for water. • <b>Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision 06/05/2015 / Abbreviations and acronyms:
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Transport of Dangerous Goods by Rail)
 ICAO: International Transport of Dangerous Goods by Rail)
 ICAO: International Contransport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 INDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transport Association
 IATA: International Air Transport Association
 ACGIF: American Conference of Governmental Industrial Hygienists
 ELINCS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 \* Data compared to the previous version altered.
 US 

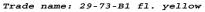


#### 1 Identification Product identifier Trade name: 29-73-B1 fl. yellow Relevant identified uses of the substance or mixture and uses advised against Currently no such applications are identified Application of the substance / the mixture Highlighter Ink water based highlighter ink Lineliter Fax Ink · Details of the supplier of the safety data sheet • Manufacturer/Supplier: SHANGHAI DOKUMENTAL INK Co. Ltd. 18-3, Mao Jia Road No. Luodian Town, Baoshan District Shanghai 201908 , P.R. China Tel.: 86-21-66864551 / 66864542 Information department: Ms. Cindy Song Email: cindy.song@dokumental.cn Emergency telephone number: Mr. Bruce Gindelberger Tel.: mobile +86-13917914495 Email: bruce.gindelberger@dokumental.cn 24-hour-Emergency- Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500 2 Hazard(s) identification Classification of the substance or mixture The product is not classified according to the Globally Harmonized System (GHS). Label elements GHS label elements Void Hazard pictograms Void Signal word Void Hazard statements Void Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire 0 Reactivity = 00 *HMIS-ratings* (scale 0 - 4) 0 HEALTH Health = 0FIRE 1 Fire Reactivity = 0REACTIVITY 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. **vPvB:** Not applicable. Composition/information on ingredients Chemical characterization: Mixtures Mixture of the following substances, containing non-hazardous substances and colouring agents. Description: Mixture of the substances listed below with nonhazardous additions. Dangerous components: 584-08-7 potassium carbonate 2.5-10% Additional information: For the wording of the listed risk phrases refer to section 16. 4 First-aid measures Description of first aid measures General information: No special measures required. After inhalation: Supply fresh air; consult doctor in case of complaints. After skin contact: Generally the product does not irritate the skin. After eye contact: Rinse opened eye for several minutes under running water. After swallowing: If symptoms persist consult doctor.

(Contd. on page 2)

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Information for doctor:

- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

#### 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

#### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing. Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections
- No dangerous substances are released. See Section 7 for information on safe handling.

  - See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

# 7 Handling and storage

#### Handling:

- Precautions for safe handling NO
- special measures required. Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- Control parameters
- Components with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed. Breathing equipment: Not required.
- Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Due to missing tests no recommendation to the glove material can be given for the product/ the

preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves

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

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Item Numbers: 68651-1003



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Trade name: 29-73-B1 fl. yellow

· Eye protection: Goggles recommended during refilling.

Information on basic physical and chemical pro General Information	operties	
Appearance:		
Form: Fluid Color: According to product specification		
		Odor:
Odour threshold:	Not determined.	
Important information on protection of health environment, and on safety.	and _	
pH-value at 20 °C (68 °F):	7.6	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	160 °C (320 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	400 °C (752 °F)	
Decomposition temperature:	Not determined.	
• Auto igniting: Product is not selfigniting.		
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)	
Density at 20 °C (68 °F):	1.05 g/cm³ (8.762 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
• Evaporation rate Not determined.		
· Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Water:	83.7 %	
Solids content:	0.2 %	
Other information	The physical and chemical properties given in	
	Section 9.1 are rough data only, which are	
	partially derived from the component's data of	
	the mixture. These data are no binding product specifications.	

#### 10 Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

US (Contd. on page 4)

Item Numbers: 68651-1003

(Contd. of page 2)

to OSHA HCS



Trade name: 29-73-B1 fl. yellow

(Contd. of page 3)

#### 11 Toxicological information

Information on toxicological effects

# Acute toxicity:

- Primary irritant effect: on the skin: No irritant effect.
- on the eye: No irritating effect
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- The product is not subject to classification according to internally approved calculation methods for preparations:
- When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

- IARC (International Agency for Research on Cancer)
- None of the ingredients is listed.
- NTP (National Toxicology Program)
- None of the ingredients is listed.
- OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed.

#### 12 Ecological information

Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable. Other adverse effects No further relevant information available.

#### 13 Disposal considerations

Waste treatment methods

Recommendation: Smaller quantities can be disposed of with household waste.

Uncleaned packagings:

- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	
• Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Void	
· Packing group · DOT, ADR, IMDG, IATA	Void	
<ul> <li>Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.	
		(Contd. on page 5)



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(Contd. of page 4)

Trade name: 29-73-B1 fl. yellow

· UN "Model Regulation":

15 Regulatory information

$\cdot$ Safety, health and environmental regulations/legislation specific for the substance or mixture $\cdot$ Sara
· Section 355 (extremely hazardous substances):
None of the ingredient is listed.
· Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.
· TSCA (Toxic Substances Control Act):
All ingredients are listed.
· Proposition 65
· Chemicals known to cause cancer:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
· Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
· DSL/NDSL (Canada) All ingredients are listed
· Cancerogenity categories
· EPA (Environmental Protection Agency)
None of the ingredients is listed.
· TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.
· MAK (German Maximum Workplace Concentration)
None of the ingredients is listed.
· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
· GHS label elements Void
· Hazard pictograms Void
• Signal word Void • Hazard statements Void
· National regulations:
• <b>Water hazard class:</b> Water hazard class 1 (Self-assessment): slightly hazardous for water. • <b>Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision 06/05/2015 / Abbreviations and acronyms:
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Transport of Dangerous Goods by Rail)
 ICAO: International Transport of Dangerous Goods by Rail)
 ICAO: International Context of Dangerous Goods by Rail)
 ICAO: International Context of Dangerous Goods by Rail)
 ICAO: International Context of Dangerous Goods
 DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 INDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transport Association
 ICAC: Neuropean Inventory of Existing Commercial Chemical Substances
 ELINECS: European Inventory of Existing Commercial Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 \* Data compared to the previous version altered.
 US



## 1 Identification Product identifier Trade name: 46-07-F fl. green Relevant identified uses of the substance or mixture and uses advised against Currently no such applications are identified Application of the substance / the mixture Highlighter Ink water based highlighter ink Lineliter Fax Ink · Details of the supplier of the safety data sheet • Manufacturer/Supplier: SHANGHAI DOKUMENTAL INK Co. Ltd. 18-3, Mao Jia Road No. Luodian Town, Baoshan District Shanghai 201908 , P.R. China Tel.: 86-21-66864551 / 66864542 Information department: Ms. Cindy Song Email: cindy.song@dokumental.cn Emergency telephone number: Mr. Bruce Gindelberger Tel.: mobile +86-13917914495 Email: bruce.gindelberger@dokumental.cn 24-hour-Emergency- Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500 2 Hazard(s) identification Classification of the substance or mixture The product is not classified according to the Globally Harmonized System (GHS). Label elements GHS label elements Void Hazard pictograms Void Signal word Void Hazard statements Void Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire 0 Reactivity = 00 HMIS-ratings (scale 0 - 4) 0 HEALTH Health = 0FIRE 1 Fire Reactivity = 0REACTIVITY 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. **vPvB:** Not applicable. 3 Composition/information on ingredients Chemical characterization: Mixtures Mixture of the following substances, containing non-hazardous substances and colouring agents. Description: Mixture of the substances listed below with nonhazardous additions. Dangerous components: Void Additional information: For the wording of the listed risk phrases refer to section 16. 4 First-aid measures Description of first aid measures General information: No special measures required. After inhalation: Supply fresh air; consult doctor in case of complaints. After skin contact: Generally the product does not irritate the skin. After eye contact: Rinse opened eye for several minutes under running water. After swallowing: If symptoms persist consult doctor. Information for doctor:

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

(Contd. on page 2)

Item Numbers: 68651-1003

US

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Trade name: 46-07-F fl. green

- Indication of any immediate medical attention and special treatment needed No further relevant information available.

- 5 Fire-fighting measures
- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

# 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing. **Environmental precautions:** Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Reference to other sections
- No dangerous substances are released.
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- 7 Handling and storage
- · Handling:
- Precautions for safe handling
- No special measures required. Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed. Breathing equipment: Not required.
- Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the
- preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the
- preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several the resistance of the glove material can not be calculated in advance and has therefore substances, to be checked prior to the application. Penetration time of glove material
- The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 3) US

(Contd. of page 1)



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Trade name: 46-07-F fl. green

· Eye protection: Goggles recommended during refilling.

Toformation on bands about all and it is		
Information on basic physical and chemical pro General Information	operties	
Appearance:		
Form:	Fluid	
Color:	According to product specification	
Odor:	Product specific	
Odour threshold:	Not determined.	
Important information on protection of health environment, and on safety.	and -	
pH-value at 20 °C (68 °F):	7.6	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	160 °C (320 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	400 °C (752 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)	
Density at 20 °C (68 °F):	1.05 g/cm³ (8.762 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Water:	83.1 %	
Solids content:	0.4 %	
Other information	The physical and chemical properties given in	
	Section 9.1 are rough data only, which are	
	partially derived from the component's data of	
	the mixture. These data are no binding product specifications.	

#### 10 Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

US (Contd. on page 4)

Item Numbers: 68651-1003

(Contd. of page 2)



Trade name: 46-07-F fl. green

(Contd. of page 3)

#### 11 Toxicological information

Information on toxicological effects

## Acute toxicity:

- Primary irritant effect: on the skin: No irritant effect.
- on the eye: No irritating effect
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- The product is not subject to classification according to internally approved calculation methods for preparations:
- When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

- IARC (International Agency for Research on Cancer)
- None of the ingredients is listed.
- NTP (National Toxicology Program)
- None of the ingredients is listed.
- OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed.

#### 12 Ecological information

Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable. Other adverse effects No further relevant information available.

#### 13 Disposal considerations

Waste treatment methods

Recommendation: Smaller quantities can be disposed of with household waste.

Uncleaned packagings:

- Recommendation: Disposal must be made according to official regulations.
- . Recommended cleansing agent: Water, if necessary with cleansing agents.

4 Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Void	
· Packing group · DOT, ADR, IMDG, IATA	Void	
· Environmental hazards:		
• Marine pollutant:	No	
• Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex 1 MARPOL73/78 and the IBC Code</li> </ul>	<b>I of</b> Not applicable.	
		(Contd. on page



(Contd. of page 4)

Trade name: 46-07-F fl. green

· UN "Model Regulation":

15 Regulatory information

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#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision 06/03/2015 / Abbreviations and acronyms:
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Transport of Dangerous Goods by Rail)
 ICAO: International Transport of Dangerous Goods by Rail)
 ICAO: International Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 INDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transport Association
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINECS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 \* Data compared to the previous version altered.
 US



### 1 Identification Product identifier Trade name: 57-11-A1 fl. violet Relevant identified uses of the substance or mixture and uses advised against Currently no such applications are identified Application of the substance / the mixture Highlighter Ink water based highlighter ink Lineliter Fax Ink · Details of the supplier of the safety data sheet • Manufacturer/Supplier: SHANGHAI DOKUMENTAL INK Co. Ltd. 18-3, Mao Jia Road No. Luodian Town, Baoshan District Shanghai 201908 , P.R. China Tel.: 86-21-66864551 / 66864542 Information department: Ms. Cindy Song Email: cindy.song@dokumental.cn Emergency telephone number: Mr. Bruce Gindelberger Tel.: mobile +86-13917914495 Email: bruce.gindelberger@dokumental.cn 24-hour-Emergency- Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500 2 Hazard(s) identification Classification of the substance or mixture The product is not classified according to the Globally Harmonized System (GHS). Label elements GHS label elements Void Hazard pictograms Void Signal word Void Hazard statements Void Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire 0 Reactivity = 00 HMIS-ratings (scale 0 - 4) 0 HEALTH Health = 0FIRE 1 Fire Reactivity = 0REACTIVITY 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. **vPvB:** Not applicable. 3 Composition/information on ingredients Chemical characterization: Mixtures Mixture of the following substances, containing non-hazardous substances and colouring agents. Description: Mixture of the substances listed below with nonhazardous additions. Dangerous components: Void Additional information: For the wording of the listed risk phrases refer to section 16. 4 First-aid measures Description of first aid measures General information: No special measures required. After inhalation: Supply fresh air; consult doctor in case of complaints. After skin contact: Generally the product does not irritate the skin. After eye contact: Rinse opened eye for several minutes under running water. After swallowing: If symptoms persist consult doctor.

- · Information for doctor:
- Most important symptoms and effects, both acute and delayed

No further relevant information available.

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Indication of any immediate medical attention and special treatment needed No further relevant information available.

- 5 Fire-fighting measures
- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing. **Environmental precautions:** Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Reference to other sections
- No dangerous substances are released.
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- 7 Handling and storage
- · Handling:
- Precautions for safe handling
- No special measures required. Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- Control parameters
- Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed. Breathing equipment: Not required.
- Protection of hands:
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and
- the degradation Material of gloves
- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several the resistance of the glove material can not be calculated in advance and has therefore substances, to be checked prior to the application. Penetration time of glove material
- The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties		
<ul> <li>Information on basic physical and chemical pro</li> <li>General Information</li> </ul>	perties	
· Appearance: Form: Color:	Fluid According to product specification	
· Odor: · Odour threshold:	Product specific Not determined.	
<ul> <li>Important information on protection of health environment, and on safety.</li> </ul>	and	
· pH-value at 20 °C (68 °F):	7.6	
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	Undetermined. 100 °C (212 °F)	
· Flash point:	160 °C (320 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	400 °C (752 °F)	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Not determined.	
• Explosion limits: Lower: Upper:	Not determined. Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)	
· Density at 20 °C (68 °F): · Relative density · Vapour density · Evaporation rate	1.05 g/cm³ (8.762 lbs/gal) Not determined. Not determined. Not determined.	
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Fully miscible.	
· Partition coefficient (n-octanol/water):	Not determined.	
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
· Solvent content: Organic solvents: Water:	0.0 % 79.3 %	
Solids content: • Other information	0.1 % The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications.	

#### 10 Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

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#### 11 Toxicological information

Information on toxicological effects

#### Acute toxicity: Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: No irritating effect
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- The product is not subject to classification according to internally approved calculation methods for preparations:
  - When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

- IARC (International Agency for Research on Cancer)
- None of the ingredients is listed.
- NTP (National Toxicology Program)
- None of the ingredients is listed.
- OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed.

#### 12 Ecological information

Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable. Other adverse effects No further relevant information available.

#### 13 Disposal considerations

Waste treatment methods

Recommendation: Smaller quantities can be disposed of with household waste.

Uncleaned packagings:

- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	
• Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Void	
· Packing group · DOT, ADR, IMDG, IATA	Void	
• Environmental hazards: • Marine pollutant:	No	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
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· UN "Model Regulation":

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara
· Section 355 (extremely hazardous substances):
None of the ingredient is listed.
· Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.
· TSCA (Toxic Substances Control Act):
All ingredients are listed.
· Proposition 65
· Chemicals known to cause cancer:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
· Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
· DSL/NDSL (Canada) All ingredients are listed
· Cancerogenity categories
· EPA (Environmental Protection Agency)
None of the ingredients is listed.
· TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.
· MAK (German Maximum Workplace Concentration)
None of the ingredients is listed.
· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
· GHS label elements Void
<ul> <li>Hazard pictograms Void</li> <li>Signal word Void</li> </ul>
· Hazard statements Void
· National regulations:
· Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision 06/05/2015 / Abbreviations and acronyms:
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICC: International Transport of Dangerous Goods by Rail)
 ICC: International Transport of Dangerous Goods by Rail)
 ICC: International Control Aviation Organisation
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 INDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transport Association
 IATA: International Air Transport Association
 IATA: International Air Transport Association
 ACGIF: American Conference of Governmental Industrial Hygienists
 ELINCS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 \* Data compared to the previous version altered.
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