# **SAFETY DATA SHEET**

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013



Date of issue/Date of revision 16 August 2023

Version 1.02

Section 1. Chemic	al product and company identification
Product code	: 00467863
Product name	: SIGMAFAST 278 BASE RAL 9016
Product name	: SIGMAFAST 278 BASE RAL 9016
Product type	: Liquid.
Relevant identified uses of t	e substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Supplier's details	: PPG Coatings (Kunshan) Co., Ltd 53 Jinyang Road, Lujia Town, 215331 Kunshan City, Jiangsu Province, P.R. China Tel: 86 512 57678859 Fax: 86 512 57678857
Emergency telephone number (with hours of operation)	: 00 86 532 83889090

# Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

#### Emergency overview Liquid. Characteristic. Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. Suspected of causing cancer. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Prolonged or repeated contact may dry skin and cause irritation.

IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice or attention. If eye irritation persists: Get medical advice or attention.

#### See Section 12 for environmental precautions.

Section 2. Hazard	Is identification
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 74.4%</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 44.1%</li> </ul>
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	<ul> <li>Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. Suspected of causing cancer. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	<ul> <li>Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.</li> </ul>
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

### Section 2. Hazards identification

Physical and chemical	: Flammable liquid and vapor.
hazards	

**Health hazards** 

: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. Suspected of causing cancer. Prolonged or repeated contact may dry skin and cause irritation.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. Long term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. **Environmental hazards** : Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation. result in classification

### Section 3. Composition/information on ingredients

Substance/mixture	÷	Mixture	
CAS number/other identifiers			
CAS number	1	Not applicable.	

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### Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
🔽 alc , not containing asbestiform fibres	10 - <25	14807-96-6
bis-[4-(2,3-epoxipropoxi)phenyl]propane	10 - <25	1675-54-3
calcium carbonate	10 - <25	471-34-1
ethylbenzene	1 - <10	100-41-4
benzyl alcohol	1 - <10	100-51-6
xylene isomers mixture	1 - <10	1330-20-7
Phenol, styrenated	1 - <10	61788-44-1
1-methoxy-2-propanol	1 - <10	107-98-2
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	1 - <10	68609-97-2
trizinc bis(orthophosphate)	0.1 - <1	7779-90-0

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8. SUB codes represent substances without registered CAS Numbers.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

#### Most important symptoms/effects, acute and delayed

Potential acute health effect	<u>ts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>toms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

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# Section 4. First aid measures

Indication of immediate med	ical attention and special treatment needed, if necessary	
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
Specific treatments	: No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	it

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	: 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

# Section 6. Accidental release measures

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

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# Section 6. Accidental release measures

For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for co	nta	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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. See Section 10 for incompatible materials before handling or use.
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# Section 7. Handling and storage

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

	Exposure limits	
orm fibres	GBZ 2.1 (China, 8/2019).	
	PC-TWA: 1 mg/m <sup>3</sup> 8 hours. Form:	
	respirable dust	
	PC-TWA: 3 mg/m <sup>3</sup> 8 hours. Form: total dust	
	ACGIH TLV (United States).	
	TWA: 3 mg/m <sup>3</sup> Form: Respirable	
	TWA: 10 mg/m <sup>3</sup> Form: Total dust	
	GBZ 2.1 (China, 8/2019).	
	PC-STEL: 150 mg/m <sup>3</sup> 15 minutes.	
	PC-TWA: 100 mg/m <sup>3</sup> 8 hours.	
	GBZ 2.1 (China, 8/2019). [Xylene (all	
	isomers)]	
	PC-STEL: 100 mg/m <sup>3</sup> 15 minutes.	
	PC-TWA: 50 mg/m <sup>3</sup> 8 hours.	
	ACGIH TLV (United States, 1/2022).	
	STEL: 369 mg/m <sup>3</sup> 15 minutes.	
	STEL: 100 ppm 15 minutes.	
	TWA: $184 \text{ mg/m}^3 8 \text{ hours.}$	
	TWA: 50 ppm 8 hours.	
: Reference should be made to a	appropriate monitoring standards. Reference to	
	or methods for the determination of hazardous	
substances will also be require	d.	
Lice only with adaguate ventilet		
	mended or statutory limits. The engineering controls	
	vork process equipment should be checked to ensure	
	ents of environmental protection legislation. In some	
equipment will be necessary to		
<u>es</u>		
	e thoroughly after handling chemical products, before	
	lavatory and at the end of the working period.	
<b>U</b>	be used to remove potentially contaminated clothing.	
	ould not be allowed out of the workplace. Wash	
	eusing. Ensure that eyewash stations and safety	
showers are close to the works		
Chemical splash goggles.		
: Cnemical splash goggles.		
: Chemical splash goggles.		
	<ul> <li>Reference should be made to a national guidance documents f substances will also be require</li> <li>Use only with adequate ventilar ventilation or other engineering contaminants below any recom also need to keep gas, vapor or limits. Use explosion-proof ver</li> <li>Emissions from ventilation or w they comply with the requirement cases, fume scrubbers, filters or equipment will be necessary to</li> <li>Wash hands, forearms and face eating, smoking and using the Appropriate techniques should Contaminated work clothing should contaminated clothing before reference.</li> </ul>	

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# Section 8. Exposure controls/personal protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
: butyl rubber
: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	Liquid.
Odor	Characteristic.
Boiling point	>37.78°C (>100°F)
Flash point	Closed cup: 44°C (111.2°F)
Lower and upper explosive (flammable) limits	Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol)
Relative density	1.43
Solubility(ies)	Media Result
oolubility(los)	cold water Not soluble
Viscosity	Kinematic (40°C): >21 mm²/s

# Section 10. Stability and reactivity

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Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

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## Section 10. Stability and reactivity

Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
s-[4-(2,3-epoxipropoxi)phenyl]	LD50 Dermal	Rabbit	23000 mg/kg	-
propane				
	LD50 Oral	Rat	15000 mg/kg	-
calcium carbonate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	6450 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts	Rat	>4178 mg/m <sup>3</sup>	4 hours
-	and mists		-	
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
xylene isomers mixture	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Phenol, styrenated	LD50 Dermal	Rabbit	>5010 mg/kg	-
-	LD50 Oral	Rat	3550 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
oxirane, mono[(C12-14-alkyloxy)	LD50 Oral	Rat	17100 mg/kg	-
methyl] derivs.				
trizinc bis(orthophosphate)	LC50 Inhalation Dusts	Rat	>5.7 mg/l	4 hours
	and mists		_	
	LD50 Oral	Rat	>5000 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
xylene isomers mixture	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

**Sensitization** 

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## Section 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result
s-[4-(2,3-epoxipropoxi)	skin	Mouse	Sensitizing
Phenol, styrenated oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	skin skin	Mouse Guinea pig	Sensitizing Sensitizing

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3		Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name	•••	Route of exposure	Target organs
ethylbenzene	Category 2	-	-

#### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2

#### Information on the likely : Not available. routes of exposure

Potential acute health effects Eye contact : Causes serious eye irritation. Inhalation : Harmful if inhaled. Skin contact : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. : No known significant effects or critical hazards. Ingestion

#### Symptoms related to the physical, chemical and toxicological characteristics

# Section 11. Toxicological information

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
General	<ul> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMAFAST 278 BASE RAL 9016	17573.4	6195.2	N/A	55.1	4.2
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
calcium carbonate	6450	2500	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
benzyl alcohol	1230	2000	N/A	N/A	1.5
xylene isomers mixture	4300	1700	N/A	11	1.5
Phenol, styrenated	3550	N/A	N/A	N/A	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	17100	N/A	N/A	N/A	N/A

#### Other information

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### Section 11. Toxicological information

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
øs-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
calcium carbonate	Acute EC10 >14 mg/l	Algae	72 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Phenol, styrenated	Acute EC50 3.8 mg/l	Daphnia	48 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
5 1 1	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	LC50 >100 mg/l	Fish	96 hours
trizinc bis(orthophosphate)	Acute LC50 0.112 mg/l Chronic NOEC 0.026 mg/l	Fish Fish	96 hours 30 days

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene Phenol, styrenated	- OECD 301F	79 % - Readily - 10 days 7 % - Not readily - 28 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
brs-[4-(2,3-epoxipropoxi) phenyl]propane ethylbenzene benzyl alcohol xylene isomers mixture Phenol, styrenated	- - - -		- - - -		Not rea Readily Readily Readily Not rea	

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
ethylbenzene benzyl alcohol xylene isomers mixture 1-methoxy-2-propanol oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	3.6 0.87 3.12 <1 3.77	79.43 - 7.4 to 18.5 - -	Low Low Low Low Low

#### Mobility in soil

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### Section 12. Ecological information

Soil/water partition coefficient (Koc)

: Not available.

#### Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information					
	China	UN	IMDG	IATA	
UN number	UN1263	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	PAINT	
Transport hazard class(es)	3	3	3	3	
Packing group	111	III	III	Ш	
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.	
Marine pollutant substances	Not applicable.	Not applicable.	(bis-[4- (2,3-epoxipropoxi) phenyl]propane, Phenol, styrenated)	Not applicable.	

Additional in	nformation
CN	: None identified.
UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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### Section 14. Transport information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

# Section 15. Regulatory information

	ina inventory (IECSC) :
References: Production Safety Law of the People's Republic of China Code of Occupational Disease Prevention of the People's Republic of China Environmental Protection Law of the People's Republic of China Fire Control Law of the People's Republic of China Regulations on the Control over Safety of Dangerous Chemicals Occupational exposure limits for hazardous agents in the workplace chemical hazardous agents (GBZ2.1) General rule for classification and hazard communication of chemicals (GB1368 Safety data sheet for chemical products - Content and order of sections (GB/ T16483) Guidance on the compilation of safety data sheet for chemical products (GB/ T17519) General rule for preparation of precautionary label for chemicals (GB15258) Safety rules for classification, precautionary labeling and precautionary stateme of chemicals (GB30000.2-29)	ferences :

# Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 16 August 2023
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	EHS
Key to abbreviations	: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
	ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods
	by Rail
	ÚN = United Nations
Indicates information the	at has changed from previously issued version

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#### Notice to reader

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