# SAFETY DATA SHEET

1-7520 Epoxy Primer Grey



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

# Section 1. Chemical product and company identification

GHS product identifier : 1-7520 Epoxy Primer Grey

Product type : Liquid.

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

**Identified uses** 

Use in coatings - Priming materials and coatings

Manufacturer : Valspar b.v.

Zuiveringweg 89 8243 PE Lelystad The Netherlands

tel: +31 (0)320 292200

Supplier's details : Sherwin-Williams (Shanghai) Ltd

188 Wu Xiang Road, Xu Hang Town Jiading.

Tel: 86-21-59552882

Emergency Number: 400-6267911

Emergency telephone number (with hours of

operation)

: CALL: 4001-204937 (Hours of operation - 24 hours)

# Section 2. Hazards identification

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

### **Emergency overview**

Liquid.

Grey.

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure. (hearing organs)

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

Get medical advice/attention if you feel unwell. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Immediately call a POISON CENTER or doctor.

See Section 12 for environmental precautions.

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

SKIN SENSITISATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

### **GHS** label elements

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# Section 2. Hazards identification

# **Hazard pictograms**











Signal word : Danger

**Hazard statements**: Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure. (hearing

organs)

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

### **Precautionary statements**

**Prevention** 

: 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. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapour or spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response

: Collect spillage. Get medical advice/attention if you feel unwell. 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. Immediately call a POISON CENTER or doctor.

**Storage** 

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

**Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Physical and chemical

hazards

Highly flammable liquid and vapour.

**Health hazards** 

: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation.

# Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion**: Adverse symptoms may include the following:

stomach pains

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

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# Section 2. Hazards identification

**Short term exposure** 

**Potential immediate** 

effects

: Not available.

**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 result in classification

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[ (1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]	≥10 - ≤25	25036-25-3
xylene 4-methylpentan-2-one	≥10 - ≤22 ≤10	1330-20-7 108-10-1
trizinc bis(orthophosphate)	≤10	7779-90-0
ethylbenzene	≤3	100-41-4
2-methylpropan-1-ol	≤3	78-83-1
butan-1-ol	≤3	71-36-3
zinc oxide	≤3	1314-13-2

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.

# Section 4. First aid measures

# **Description of necessary first aid measures**

**Eye contact** 

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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# Section 4. First aid measures

# Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

# Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contactInhalationCauses serious eye damage.May cause respiratory irritation.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

# Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion** : Adverse symptoms may include the following:

stomach pains

# Indication of immediate medical 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 it 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.

# See toxicological information (Section 11)

# Section 5. Firefighting measures

# **Extinguishing media**

Suitable extinguishing

: Use dry chemical, CO2, water spray (fog) or foam.

....

**Unsuitable extinguishing** 

media

media

: Do not use water jet.

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# Section 5. Firefighting measures

# Specific hazards arising from the chemical

# Highly flammable liquid and vapour. 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. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. 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 dioxide carbon monoxide phosphorus oxides 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

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

# Section 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

# For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

# For emergency responders

: If specialised 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 spilt 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 material for containment 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 the 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 spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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# Section 7. Handling and storage

### Precautions for safe handling

### **Protective measures**

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. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

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 oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

# Control parameters

### Occupational exposure limits

Ingredient name	Exposure limits
xylene	GBZ 2.1 (China, 8/2019).
	PC-STEL: 100 mg/m³, 0 times per shift, 15 minutes.
	PC-TWA: 50 mg/m³, 0 times per shift, 8
	hours.
4-methylpentan-2-one	ACGIH TLV (United States, 3/2019). Notes:
	Substances for which there is a Biological
	Exposure Index or Indices
	STEL: 75 ppm 15 minutes.
	TWA: 20 ppm 8 hours.
ethylbenzene	GBZ 2.1 (China, 8/2019).
-	PC-STEL: 150 mg/m³ 15 minutes.
	PC-TWA: 100 mg/m <sup>3</sup> 8 hours.
2-methylpropan-1-ol	ACGIH TLV (United States, 3/2019).
	TWA: 152 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
butan-1-ol	GBZ 2.1 (China, 8/2019).
	PC-TWA: 100 mg/m³ 8 hours.

# Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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# Section 8. Exposure controls/personal protection

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: chemical splash goggles and/or face shield.

# Skin protection Hand 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. > 8 hours (breakthrough time): Recommended EN 374 fluor rubber foil >= 0.7 mm < 1 hour (breakthrough time): Conditionally suitable materials for protective gloves; EN 374: Nitrile rubber - NBR (>= 0.35 mm). Only suitable as splash protection. Only suitable for brief exposure. In the event of contamination, change protective gloves immediately.

# **Body protection**

: 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. Recommended: Cotton or cotton/synthetic overalls or coveralls are normally suitable.

### Other skin protection

: 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.

### Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: EN 405:2001 + A1:2009 organic vapour (Type A) and particulate filter FFA2P3 R D

# Section 9. Physical and chemical properties

# **Appearance**

Physical state : Liquid.
Colour : Grey.

Odour : Not available.

Odour threshold : Not available.

pH : Not applicable.

Melting point : Not available.

Boiling point : >100°C (>212°F)

Flash point : Closed cup: 18.5°C (65.3°F)

**Evaporation rate** : Not available.

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# Section 9. Physical and chemical properties

: 1.46 to 1.54

Flammability (solid, gas) : Not available. Lower and upper explosive : Lower: 1.2% (flammable) limits Upper: 10.9% Vapour pressure : Not available. Vapour density : 3.5 [Air = 1]

**Solubility** : Insoluble in the following materials: cold water and hot water.

Solubility in water : Not available. Partition coefficient: n-: Not applicable.

octanol/water

Relative density

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available. **Viscosity** : Not available. Flow time (ISO 2431) : Not available.

# Section 10. Stability and reactivity

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

**Chemical stability** : The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not

allow vapour to accumulate in low or confined areas.

Incompatible materials : Reactive or incompatible with the following materials:

oxidising materials

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# Section 11. Toxicological information

# Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Phenol, 4,4'- (1-methylethylidene)bis-, polymer with 2,2'-[ (1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bis[oxirane]	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
xylene	LC50 Inhalation Gas.	Rat	6350 ppm	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 to 4000 mg/	-
			kg	
4-methylpentan-2-one	LC50 Inhalation Vapour	Rat	16.4 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	2080 mg/kg	-
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and mists	Rat	>5.7 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	6350 ppm	4 hours

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# Section 11. Toxicological information

	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 to 4000 mg/	-
			kg	
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	8000 mg/l	4 hours
	LD50 Dermal	Rabbit	3392 mg/kg	-
	LD50 Oral	Rat	24600 mg/kg	-
butan-1-ol	LC50 Inhalation Vapour	Rat	>17.76 mg/l	4 hours
	LD50 Dermal	Rabbit	3430 mg/kg	-
	LD50 Oral	Rat	2292 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5.7 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

# **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Mild irritant	Rat	-	8 hours 60	-
				microliters	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	100 Percent	-
	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				milligrams	
4-methylpentan-2-one	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				microliters	
	Eyes - Severe irritant	Rabbit	-	40 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				milligrams	
butan-1-ol	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
	Eyes - Severe irritant	Rabbit	-	0.005	-
				Mililiters	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	

# **Sensitisation**

Not available.

# **Mutagenicity**

Not available.

# **Carcinogenicity**

Not available.

# **Reproductive toxicity**

Not available.

# **Teratogenicity**

Not available.

Specific target organ toxicity (single exposure)

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# Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
4-methylpentan-2-one	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

# Specific target organ toxicity (repeated exposure)

Name	3.5	Route of exposure	Target organs
7	Category 2 Category 2	-	- hearing organs

### **Aspiration hazard**

Name	Result	
xylene	ASPIRATION HAZARD - Category 1	
ethylbenzene	ASPIRATION HAZARD - Category 1	

Information on likely routes

of exposure

: Not available.

# Potential acute health effects

Eye contactInhalationCauses serious eye damage.May cause respiratory irritation.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

# Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion** : Adverse symptoms may include the following:

stomach pains

# Delayed and immediate effects as well as 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

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# Section 11. Toxicological information

Potential delayed effects : Not available.

**Potential chronic health effects** 

Not available.

General: May cause damage to organs through prolonged or repeated exposure. Once

sensitized, a severe allergic reaction may occur when subsequently exposed to very

low levels.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

No known significant effects or critical hazards.

# **Numerical measures of toxicity**

# **Acute toxicity estimates**

Route	ATE value
Inhalation (gases)	9626.84 mg/kg 55573.12 ppm 457.89 mg/l

# Section 12. Ecological information

### **Toxicity**

Acute EC50 1 to 10 mg/l Acute EC50 1 to 10 mg/l Acute LC50 1 to 10 mg/l EC50 400 mg/l EC50 >200 mg/l LC50 >179 mg/l	Algae Daphnia - Daphnia magna Fish Algae Daphnia - Daphnia magna	72 hours 48 hours 96 hours 96 hours
Acute LC50 1 to 10 mg/l EC50 400 mg/l EC50 >200 mg/l	Fish Algae	96 hours
EC50 400 mg/l EC50 >200 mg/l	Algae	
EC50 >200 mg/l		96 hours
	Daphnia - Daphnia magna	
LC50 >179 mg/l	Bapinia Bapinia magna	48 hours
	Fish - Danio rerio	96 hours
Acute EC50 63.1 mg/l	Daphnia - Daphnia magna	48 hours
Acute LC50 6.3 mg/l	Fish - Oncorhynchus mykiss	96 hours
Acute LC50 >10 mg/l	Fish - Pimephales promelas	96 hours
Acute EC50 1799 mg/l		72 hours
Ŭ	subcapitata	
Acute EC50 1799 mg/l	Aquatic plants - Scenedesmus	72 hours
Ŭ	subspicatus	
Acute EC50 1100 mg/l	Daphnia - Daphnia pulex	48 hours
		96 hours
		72 hours
Ŭ		
Chronic NOEC 20 mg/l		21 days
		96 hours
<b>3</b> .		
Acute EC50 1328 mg/l	·	48 hours
		96 hours
		21 days
		72 hours
Acute LC50 320 ppm		96 hours
		72 hours
	Acute LC50 6.3 mg/l Acute LC50 >10 mg/l Acute EC50 1799 mg/l	Acute LC50 6.3 mg/l Acute LC50 >10 mg/l Acute EC50 1799 mg/l Acute EC50 1100 mg/l Acute LC50 1430 mg/l Acute LC50 1430 mg/l Acute LC50 147 mg/l Acute EC50 225 mg/l Acute EC50 1328 mg/l Acute LC50 1376 mg/l Acute EC50 0.17 mg/l Acute EC50 0.17 mg/l Acute EC50 0.17 mg/l Acute EC50 0.17 mg/l Acute EC50 1376 mg/l Acute EC50 0.17 mg/l Acute EC50 320 ppm  Fish - Oncorhynchus mykiss Fish - Pimephales promelas Adgae - Pseudokirchneriella subcapitata Daphnia - Daphnia magna Algae - Desmodesmus subspicatus Daphnia - Daphnia magna Fish - Pimephales promelas Daphnia - Daphnia magna Fish - Pimephales promelas Daphnia - Daphnia magna Algae - Selenastrum capricornutum Fish - Lepomis macrochirus

# Persistence/degradability

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1-7520 Epoxy Primer Grey

# **Section 12. Ecological information**

Product/ingredient name	Test	Result		Dose	Inoculum
2-methylpropan-1-ol butan-1-ol	- OECD 301E Ready Biodegradability - Modified OECD Screening Test	70 to 80 % - 28 day >70 % - 19 days	S	-	-
Product/ingredient name	Aquatic half-life		Photolysis	<b>S</b>	Biodegradability
4-methylpentan-2-one 2-methylpropan-1-ol butan-1-ol	-		- - -		Readily Readily Readily

# **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Phenol, 4,4'- (1-methylethylidene)bis-, polymer with 2,2'-[ (1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bis[oxirane]	2.64 to 3.78	31	low
xylene	3.12	8.1 to 25.9	low
4-methylpentan-2-one	1.9	-	low
trizinc bis(orthophosphate)	-	60960	high
ethylbenzene	3.6	-	low
2-methylpropan-1-ol	1	-	low
butan-1-ol	1	-	low
zinc oxide	-	28960	high

### **Mobility in soil**

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 minimised 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

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# 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	ε ε
Packing group	II	II	II	II
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.

# **Additional information**

China : <u>Special provisions</u> 163 UN : <u>Special provisions</u> 163, 367

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Emergency schedules F-E, \_S-E\_ Special provisions 163, 367

**IATA** : The environmentally hazardous substance mark may appear if required by other

transportation regulations.

**Quantity limitation** Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353.

Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities -

Passenger Aircraft: 1 L. Packaging instructions: Y341.

Special provisions A3, A72, A192

**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.

**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.

Incompatible materials

: Reactive or incompatible with the following materials:

oxidising materials

Transport in bulk according

to IMO instruments

: Not available.

# **Section 15. Regulatory information**

List of Goods banned for Importing

None of the components are listed.

**Inventory of Hazardous Chemicals** 

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# Section 15. Regulatory information

Ingredient name	CAS number	Status	Reference number
xylene 4-methylpentan-2-one ethylbenzene 2-methylpropan-1-ol butan-1-ol	1330-20-7	Listed	358
	108-10-1	Listed	1059
	100-41-4	Listed	2566
	78-83-1	Listed	1033
	71-36-3	Listed	2761

# **List of Goods banned for Exporting**

None of the components are listed.

# List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

# **Inventory of highly toxic articles**

None of the components are listed.

# **Catalogue of Hazardous Chemicals of Priority Management**

toluene Listed benzene Listed

### International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

# Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

# **Inventory list**

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

Malaysia : Not determined

New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.Republic of Korea: All components are listed or exempted.Taiwan: All components are listed or exempted.

Thailand : Not determined.
Turkey : Not determined.
United States : Not determined.
Viet Nam : Not determined.

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# Section 16. Other information

### **History**

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**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

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)

**UN = United Nations** 

# Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	On basis of test data
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	Calculation method
SKIN SENSITISATION - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2	Calculation method
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	Calculation method

References : Not available.

▼ Indicates information that has changed from previously issued version.

# **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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