## SAFETY DATA SHEET



: 1.07

1/14

## Barrier ZEP HS Comp A

Section 1. Chem	nical product and company identification
Product name	: Barrier ZEP HS Comp A
Product code	: 45802
Product type	: Liquid.
Product description	: Paint.
Relevant identified uses	of the substance or mixture and uses advised against
Use in coatings - Industria	luse
Use in coatings - Professio	onal use
Supplier's details	: Chokwang Jotun Ltd. 30th Block Jisa science park, 1205 Jisa-dong, Gangseo-ku, Busan, South Korea Tel: + 82 51 797 6000 Fax: + 82 51 711 7735
	朝光 JOTUN 株式會社 大韓民國 釜山廣域市 江西區 科學産團 1路 96 (智士洞) Tel: + 86 535 3088 586 Fax: + 82 51 711 7735
	SDSJotun@jotun.com
Emergency telephone number (with hours of operation)	: +86 535 3088 586

## Section 2. Hazards identification

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

Classification of the substance or mixture	SKIN CORF SERIOUS E SKIN SENS CARCINOG SHORT-TE	E LIQUIDS - Category 3 ROSION/IRRITATION - 0 YE DAMAGE/EYE IRRI ITISATION - Category 1 ENICITY - Category 2 RM (ACUTE) AQUATIC M (CHRONIC) AQUATIC	Category 2 TATION - Category 1 HAZARD - Category	1
GHS label elements				
Hazard pictograms				22
Signal word	: Danger.	•	•	•
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## Section 2. Hazards identification

Hazard statements	:	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H318 - Causes serious eye damage.</li> <li>H351 - Suspected of causing cancer.</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements		
General	:	Not applicable.
Prevention	:	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapour.</li> </ul>
Response	:	<ul> <li>P391 - Collect spillage.</li> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Immediately call a POISON CENTER or doctor.</li> </ul>
Storage	:	P403 + P235 - Store in a well-ventilated place. Keep cool.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Physical and chemical hazards	:	Flammable liquid and vapour.
Health hazards	:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer.

## Section 3. Composition/information on ingredients

: Mixture

: Not available.

Substance/mixture	
Other means of	
identification	

Ingredient name	%	CAS number
zinc	≤60	7440-66-6
epoxy resin (MW 700-1200)	≤25	25036-25-3
xylene	≤15	1330-20-7
ethylbenzene	≤5	100-41-4
butan-1-ol	≤4.4	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 necess	ary 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.
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

Most important sympt	oms/effects, acute and delayed
Potential acute healt	h effects
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
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	: No specific data.
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 immedia	te medical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

## Section 4. First aid measures

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 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 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. This material is very 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 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 cor	<u>ita</u>	inment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and<br/>explosion-proof equipment. Dilute with water and mop up if water-soluble.<br/>Alternatively, or if water-insoluble, absorb with an inert dry material and place in an<br/>appropriate waste disposal container. Dispose of via a licensed waste disposal<br/>contractor.

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## Section 6. Accidental release measures

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.

## Section 7. Handling and storage

Precautions for safe handling	1	
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. 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 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, 11/2022). [Xylene]
	PC-STEL: 100 mg/m <sup>3</sup> 15 minutes.
	PC-TWA: 50 mg/m <sup>3</sup> 8 hours.
ethylbenzene	GBZ 2.1 (China, 11/2022).
	PC-TWA: 100 mg/m <sup>3</sup> 8 hours.
	PC-STEL: 150 mg/m <sup>3</sup> 15 minutes.
butan-1-ol	GBZ 2.1 (China, 11/2022).
	PC-TWA: 100 mg/m <sup>3</sup> 8 hours.

**Biological exposure indices** 

## Section 8. Exposure controls/personal protection

Ingredient name		Exposure indices		
xylene		<b>GBZ 2.1 (China, 11/2022)</b> BEI: 0.4 g/L, methylhippuric acids [in urine]. Sampling time: end of work shift. BEI: 0.3 g/g Cr, methylhippuric acids [in urine]. Sampling time: end of work shift.		
ethylbenzene		<b>GBZ 2.1 (China, 11/2022)</b> BEI: 0.8 g/g Cr, mandelic acid and phenylglyoxylic acid (MA and PGA) [in urine]. Sampling time: end of work shift.		
Appropriate engineering controls	ventilation or other engineering contaminants below any recom	tion. Use process enclosures, local exhaust g controls to keep worker exposure to airborne mended or statutory limits. The engineering controls or dust concentrations below any lower explosive ntilation equipment.		
Environmental exposure controls	they comply with the requirement cases, fume scrubbers, filters	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 measu	' <u>es</u>			
Hygiene measures	: Wash hands, forearms and fac eating, smoking and using the Appropriate techniques should Contaminated work clothing sh	ce thoroughly after handling chemical products, before lavatory and at the end of the working period. be used to remove potentially contaminated clothing. hould not be allowed out of the workplace. Wash eusing. Ensure that eyewash stations and safety station location.		
Eye/face protection	assessment indicates this is ne gases or dusts. If contact is po unless the assessment indicate	Safety eyewear complying to ISO 16321-1:2022 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		
Skin protection	·			
Hand protection	resistance to any individual or of The breakthrough time must be The instructions and informatic storage, maintenance and repl Gloves should be replaced reg material. Always ensure that gloves are correctly. The performance or effectivent damage and poor maintenance	e greater than the end use time of the product. on provided by the glove manufacturer on use, acement must be followed. ularly and if there is any sign of damage to the glove free from defects and that they are stored and used ess of the glove may be reduced by physical/chemical e. otect the exposed areas of the skin but should not be		
	Wear suitable gloves tested to May be used, gloves(breakthro mm), neoprene (> 0.35 mm), b Recommended, gloves(breakt	ISO 374-1:2016. bugh time) 4 - 8 hours: Viton® (> 0.7 mm), PVC (> 0.5		
		ials, with focus on chemical resistance and time of e supplier of chemical resistant gloves.		

## Section 8. Exposure controls/personal protection

	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	: Use chemical-resistant protective suit / disposable overall.
	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.
Other skin protection	<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>
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.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>				
Physical state	1	Liquid.		
Colour	1	Grey		
Odour	1	Characteristic.		
Odour threshold	1	Not applicable.		
рН	1	Not applicable.		
Melting point/freezing point	:	Not applicable.		
Boiling point, initial boiling point, and boiling range	:	Lowest known value: 119°C (246.2°F) (butan-1-ol). Weighted average: 133.12°C (271.6°F)		
Flash point	:	Closed cup: 26°C (78.8°F)		
Evaporation rate	1	Highest known value: 0.84 (ethylbenzene) Weighted average: 0.73compared with butyl acetate		
Flammability	1	Not applicable.		
Lower and upper explosion limit/flammability limit	:	Greatest known range: Lower: 1.4% Upper: 11.3% (butan-1-ol)		
Vapour pressure	:	Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.96 kPa (7.2 mm Hg) (at 20°C)		
Relative vapour density	:	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.51 (Air = 1)		
Density	:	1.469 g/cm³		
Solubility(ies)	1			
Media		Result		
cold water hot water		Not soluble Not soluble		
Solubility in water	:	Not available.		
Partition coefficient: n- octanol/water	:	Not available.		
Auto-ignition temperature	:	Lowest known value: 355°C (671°F) (butan-1-ol).		
Decomposition temperature	1	Not available.		
Viscosity	:	Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)		
Particle characteristics				
Median particle size	:	Not applicable.		
No additional information.				

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## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: 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.
Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials
Hazardous decomposition products	<ul> <li>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</li> </ul>

## Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Vapour	Rat	11 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	11 mg/l	4 hours
-	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
butan-1-ol	LD50 Oral	Rat	790 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
zinc	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
epoxy resin (MW 700-1200)	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	mg 24 hours 500 mg	-

#### **Sensitisation**

•	Route of exposure	Species	Result
epoxy resin (MW 700-1200)	skin	Mammal - species unspecified	Sensitising

#### **Mutagenicity**

Not available.

**Carcinogenicity** 

## Section 11. Toxicological information

Not available.

#### **Classification**

Product/ingredient name	IARC
ethylbenzene	2B

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

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

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

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

Product/ingredient name		Route of exposure	Target organs
ethylbenzene	Category 2	-	-

#### **Aspiration hazard**

Product/ingredient name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely routes of exposure	: Not available.
Potential acute health effects	
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy Eye contact	<ul> <li>sical, chemical and toxicological characteristics</li> <li>Adverse symptoms may include the following: pain watering</li> </ul>
Inhalation	redness : No specific data.
Skin contact	<ul> <li>Adverse symptoms may include the following:</li> <li>pain or irritation</li> <li>redness</li> <li>blistering may occur</li> </ul>
Ingestion	: Adverse symptoms may include the following: stomach pains

#### <u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u> <u>Short term exposure</u>

## Section 11. Toxicological information

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	<u>ects</u>
Not available.	
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
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)	(vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Barrier ZEP HS Comp A xylene butan-1-ol	15625 N/A 500	1100	N/A N/A N/A	11	N/A N/A N/A

## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
zinc	Acute LC50 330 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.78 mg/l Fresh water	Fish	96 hours
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
,	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours
zinc oxide	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.02 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours

#### Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
zinc xylene ethylbenzene		-	Not readily Readily Readily
zinc oxide	-	-	Not readily

#### **Bioaccumulative potential**

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## Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential	
xylene ethylbenzene butan-1-ol zinc oxide	3.12 3.6 1	8.1 to 25.9 - - 28960	low low low high	

#### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

: 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.

## Section 14. Transport information

	•							
	China	UN	IMDG	ΙΑΤΑ				
UN number	UN1263	UN1263	UN1263	UN1263				
UN proper shipping name	Paint	Paint	Paint. Marine pollutant (zinc)	Paint				
Transport hazard class(es)	3	3	3	3				
Packing group	Ш	111	111	111				
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         IMDG       : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.         Emergency schedules       F-E, S-E								
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.							
ADR / RID	: Tunnel restriction code: (D/E) Hazard identification number: 30							

Marking: The environmental hazardous / marine pollutant mark is only applicable for<br/>packages containing more than 5 litres for liquids and 5 kg for solids.

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## Section 14. Transport information

Special precautions for user	:	<b>Transport within user's premises:</b> 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.
<u>Extinguishing media</u>		
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

Safety, health and environmental regulations specific for the product:

#### Law of the People's Republic of China on the Prevention and Control of Occupational Diseases

Regulations on the Control over Safety of Dangerous Chemicals

Measures for Environmental Management of New Chemical Substances

Law of the People's Republic of China on the Prevention and Control of Environment Pollution Caused by Solid Wastes Safety regulations for the use of chemicals in the workplace

General Rule for Classification and Hazard Communication of Chemicals

Classification and code of dangerous goods

#### List of Goods banned for Importing

None of the components are listed.

#### Drug Precursors Requiring an Import/Export License

None of the components are listed.

#### **Inventory of Hazardous Chemicals**

Ingredient name	CAS number		Reference number
xylene	1330-20-7	Listed	358
ethylbenzene	100-41-4	Listed	2566
butan-1-ol	71-36-3	Listed	2761

#### List of Explosive Precursors

Ingredient name	CAS number		Reference number
Aluminium powder (stabilized)	7429-90-5	Listed	7.6

#### 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.

#### Catalogue and classification of drug precursor chemicals

None of the components are listed.

#### Inventory of highly toxic articles

None of the components are listed.

#### Catalogue of Hazardous Chemicals of Priority Management

None of the components are listed.

## Section 15. Regulatory information

# Catalogue of Occupational Disease Hazard Factors - Dust Ingredient name Status Aluminium powder (stabilized) Listed

#### **Catalogue of Occupational Disease Hazard Factors - Chemical Factors**

Ingredient name	Status
xylene	Listed
ethylbenzene	Listed
butan-1-ol	Listed
zinc oxide	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.

## Section 16. Other information

<u>History</u>	
Date of printing	: 27.11.2024
Date of issue/Date of revision	: 27.11.2024
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Version	: 1.07
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = 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) N/A = Not available SGG = Segregation Group UN = United Nations</li> </ul>

#### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	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
CARCINOGENICITY - Category 2	Calculation method Calculation method
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	Calculation method

#### References

: Not available.

## Section 16. Other information

Indicates information that has changed from previously issued version.

#### Notice to reader

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If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.