# SAFETY DATA SHEET



### Jotaguard 630 Comp A

Section 1. Identi	fication
GHS product identifier	: Jotaguard 630 Comp A
Other means of identification	: Not available.
Product code	: 15520
Product description	: Paint.
Product type	: Liquid.
Relevant identified uses o	f the substance or mixture and uses advised against
Identified uses	
Use in coatings - Industrial Use in coatings - Profession	
Supplier's details	: Jotun (Singapore) Pte Ltd 37 Tuas View Crescent Singapore 637236 Phone: 6508 8288 Fax: 6265 7484 SDSJotun@jotun.com
Emergency telephone number	: Jotun (Singapore) Pte Ltd, Tel: 6508 8288

## Section 2. Hazards identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SKIN SENSITISATION - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
GHS label elements	
Hazard pictograms	
Signal word	: Warning.
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>H319 - Causes serious eye irritation.</li> <li>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	<ul> <li>P280 - Wear protective gloves. Wear 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>

### Section 2. Hazards identification

Response	:	P362 + P364 - Take off contaminated clothing and wash it before reuse.
		P302 + P352 - IF ON SKIN: Wash with plenty of water.
		P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
		P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.
		Remove contact lenses, if present and easy to do. Continue rinsing.
		P337 + P313 - If eye irritation persists: Get medical advice or attention.
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.
ther hazards which do not	1	None known.

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result in classification
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benzyl alcohol

### Section 3. Composition/information on ingredients

Substance/mixture	: Mixture		
Other means of	: Not available.		
identification			
CAS number/other ident	<u>tifiers</u>		
CAS number	: Not applicable.		
EC number	: Mixture.		
Product code	: 15520		
Ingredient name		%	CAS number
4,4'-Isopropylidenedipher	nol, oligomeric reaction products with 1-chloro-	≥10 - <25	67989-52-0
2,3-epoxypropane, reacti	on products with fatty acids, C18-unsatd., dimers	5	
xylene		≤10	1330-20-7
epoxy resin (MW 700-12		≤10	25036-25-3
glycidyl ether of 3-alkyl pl	henol	≤5	68413-24-1
butan-1-ol		<3	71-36-3
ethylbenzene		≤3	100-41-4

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.

≤3

100-51-6

Occupational exposure limits, if available, are listed in Section 8.

**Chemical formula** : Not applicable.

### Section 4. First aid measures

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

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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	: 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

### Section 4. First aid measures

Ingestion	: 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 induce vomiting unless directed to do so by medical personnel. If vomiting occur the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and medical attention immediately. Maintain an open airway. Loosen tight clothing set as a collar, tie, belt or waistband.	not s, get
Most important symptoms/e	ects, acute and delayed	
Potential acute health effe		
Eye contact	: Causes serious eye irritation.	
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/symp	oms	
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	
Ingestion	: No specific data.	
	cal 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 may be dangerous to the person providing aid to give mouth-to-mouth resuscitati Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
See toxicological informatio	(Section 11)	

#### 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 harmful 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 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	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Date of issue	: 11.05.2023 3/11

### Section 6. Accidental release measures

Personal precautions, protec	:tiv	e 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. Avoid breathing 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.
Methods and material for cor	nta	inment 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.

# Section 7. Handling and storage

Precautions for safe handling	L	
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 ingest. Avoid breathing vapour 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.
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. 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	Workplace Safety and Health Act (Singapore, 2/2006). PEL (short term): 651 mg/m <sup>3</sup> 15 min PEL (short term): 150 ppm 15 minut PEL (long term): 434 mg/m <sup>3</sup> 8 hours PEL (long term): 100 ppm 8 hours.	tes.
butan-1-ol	Workplace Safety and Health Act (Singapore, 2/2006). PEL (short term): 152 mg/m <sup>3</sup> 15 min	nutes.
ethylbenzene	PEL (short term): 50 ppm 15 minute Workplace Safety and Health Act (Singapore, 2/2006). Notes: PEL (long term): 100 ppm 8 hours. PEL (long term): 434 mg/m <sup>3</sup> 8 hours Workplace Safety and Health Act (Singapore, 2/2006). PEL (short term): 543 mg/m <sup>3</sup> 15 min PEL (short term): 125 ppm 15 minut	es. 5. nutes.
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 also need to keep gas, vapour or dust concentrations below any lower explo limits. Use explosion-proof ventilation equipment.	controls
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to they comply with the requirements of environmental protection legislation. Ir cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
Individual protection meas		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated of Contaminated work clothing should not be allowed out of the workplace. Wa contaminated clothing before reusing. Ensure that eyewash stations and sa showers are close to the workstation location.	clothing. ash
Eye/face protection	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, gases or dusts. If contact is possible, the following protection should be wor unless the assessment indicates a higher degree of protection: chemical sp goggles.	, mists, rn,
Skin protection		
Hand protection	There is no one glove material or combination of materials that will give unlir resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product The instructions and information provided by the glove manufacturer on use storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the material. Always ensure that gloves are free from defects and that they are stored and correctly. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should applied once exposure has occurred.	t. , e glove d used

### Section 8. Exposure controls/personal protection

	Wear suitable gloves tested to ISO 374-1:2016.
	Not recommended, gloves(breakthrough time) < 1 hour: butyl rubber (> 0.4 mm)
	May be used, gloves(breakthrough time) 4 - 8 hours: neoprene (> 0.35 mm), PVC (> 0.5 mm)
	Recommended, gloves(breakthrough time) > 8 hours: Viton® (> 0.7 mm), nitrile rubber (> 0.4 mm), 4H/Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm)
	For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.
	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	: 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

		• •
Appearance		
Physical state	:	Liquid.
Colour	:	Black., Grey, Red
Odour	:	Characteristic.
Odour threshold	:	Not available.
рН	1	Not applicable.
Melting point	:	Not applicable.
Boiling point	:	Lowest known value: 119°C (246.2°F) (butan-1-ol). Weighted average: 143.13°C (289.6°F)
Flash point	:	Closed cup: 30°C (86°F)
Burning time	:	Not applicable.
Burning rate	:	Not applicable.
Evaporation rate	:	Highest known value: 0.84 (ethylbenzene) Weighted average: 0.61compared with butyl acetate
Flammability (solid, gas)	:	Not applicable.
Lower and upper explosive (flammable) limits	:	0.8 - 13%
Vapour pressure	:	Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.82 kPa (6.15 mm Hg) (at 20°C)
Vapour density	:	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.51 (Air = 1)
Relative density	:	1.551 to 1.603 g/cm <sup>3</sup>
Solubility	:	Very slightly soluble in the following materials: cold water. Insoluble in the following materials: hot water.
Solubility in water	:	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	1	Lowest known value: 355°C (671°F) (butan-1-ol).
Decomposition temperature	:	Not available.
SADT	3	Not available.

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Dale	01	1330	e

### Section 9. Physical and chemical properties

Viscosity

: Dynamic: Highest known value: 2.95 cP (butan-1-ol) Weighted average: 1.16 cP Kinematic: Highest known value: 0.77 cSt (ethylbenzene) (OECD 114) Kinematic (40C): >20.5 cSt

### 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	<ul> <li>Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.</li> </ul>
Hazardous decomposition products	<ul> <li>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</li> </ul>
SADT	: Not available.

### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Vapour	Rat	20 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
butan-1-ol	LD50 Oral	Rat	790 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
benzyl alcohol	LD50 Oral	Rat	1230 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
epoxy resin (MW 700-1200)	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-
benzyl alcohol	Eyes - Mild irritant	Mammal - species unspecified	-	-	-

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
epoxy resin (MW 700-1200)	skin	Mammal - species unspecified	Sensitising
glycidyl ether of 3-alkyl phenol	skin	Mammal - species unspecified	Sensitising

**Mutagenicity** 

Not available.

#### **Carcinogenicity**

Not available.

**Reproductive toxicity** 

### Section 11. Toxicological information

Not available.

### **Teratogenicity**

Not available.

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

Name			Category		Route of exposure	Target organs
xylene			Category 3 - Respirator irritation		Respiratory tract	
butan-1-ol			Category 3		-	Respiratory tract
			Category 3			Narcotic effects
Specific target organ toxici	ty (	repeated exposure)				
Name			Category		Route of exposure	Target organs
ethylbenzene			Category 2		-	hearing organs
Aspiration hazard						
Name				Resu	ult	
xylene ethylbenzene					RATION HAZAR RATION HAZAR	
Information on likely routes of exposure	;	Not available.				
Potential acute health effect	<u>s</u>					
Eye contact	1	Causes serious eye irritati	on.			
Inhalation	1	No known significant effect	ts or critical h	nazaro	ls.	
Skin contact	1	Causes skin irritation. Ma	y cause an al	lergic	skin reaction.	
Ingestion	1	No known significant effect	ts or critical h	nazaro	ls.	
Symptoms related to the phy	<u>/sic</u>	cal, chemical and toxicolo	gical charac	terist	<u>ics</u>	
Eye contact	:	Adverse symptoms may ir pain or irritation watering redness	nclude the foll	owing	J:	
Inhalation	: No specific data.					
Skin contact	:	Adverse symptoms may include the following: irritation redness				
Ingestion	:	No specific data.				
Delayed and immediate effect	<u>cts</u>	as well as chronic effects	from short	and lo	ong-term exposi	<u>ure</u>
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	ect	<u>s</u>				
Not available.						
General	:	Once sensitized, a severe to very low levels.	allergic react	tion m	ay occur when si	ubsequently exposed
Carcinogenicity	:	No known significant effec	ts or critical h	nazaro	ls.	
Mutagenicity		No known significant effect				

### Section 11. Toxicological information

- Teratogenicity
- : No known significant effects or critical hazards.
- **Developmental effects**
- : No known significant effects or critical hazards.
- Fertility effects
- : No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value	
Oral Dermal Inhalation (vapours)	13194.88 mg/kg 12643.68 mg/kg 126.22 mg/l	

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
ethylbenzene	Acute LC50 13400 μg/l Fresh water Acute EC50 7700 μg/l Marine water Acute EC50 2.93 mg/l Acute LC50 4.2 mg/l	Fish - Pimephales promelas Algae - Skeletonema costatum Daphnia Fish	96 hours 96 hours 48 hours 96 hours

#### Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene ethylbenzene benzyl alcohol	- -	- - -	Readily Readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	8.1 to 25.9	low
butan-1-ol	1	-	low
ethylbenzene	3.6	-	low
benzyl alcohol	0.87	<100	low

#### Mobility in soil

Soil/water partition	: Not
coefficient (Koc)	
Other adverse effects	: No I

: Not available.

: 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.
	Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

### Section 14. Transport information

	UN	IMDG	IATA	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	Paint	Paint	Paint	
Transport hazard class(es)	3	3	3	
Packing group	111			
Environmental hazards	No.	No.	No.	
Additional information	-	Emergency schedules F-E, S-E	-	

#### **Additional information**

Transport in accordance with ADR/RID, IMDG/IMO and ICAO/IATA and national regulation.

ADR / RID	:	Tunnel restriction code: (D/E) Hazard identification number: 30	
		ADR/RID: Viscous substance. Not restricted, ref. chapter 2.2.3.1.5 (applicable to receptacles < 450 litre capacity).	
IMDG	:	IMDG: Viscous substance. Transport in accordance with paragraph 2.3.2.5 (applicable to receptacles < 450 litre capacity).	
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.	
Transport in bulk according to IMO instruments	:	Not available.	

### Section 15. Regulatory information

Singapore - hazardous chemicals under government control None.

### Section 16. Other information

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 = Internediate 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
References	: Not available.

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

### Section 16. Other information

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