SAFETY DATA SHEET



Penguard HB Comp A

Section 1. Identification		
GHS product identifier	: Penguard HB Comp A	
Other means of identification	: Not available.	
Product code	: 613	
Product description	: Paint.	
Product type	: Liquid.	
Relevant identified uses of the	substance or mixture and uses advised against	
Identified uses		
Use in coatings - Industrial us Use in coatings - Professional		

Manufacturing country	Jotun Thailand Limited 700/353 Amata Nakorn Industrial Estate (BIP 2) Moo 6, Tumbol Donhualoh, Amphur Muang Chonburi Chonburi 20000 Thailand
	Phone: + 66 2 022 9888 Fax: + 66 2 022 9888 , + 66 38 214 375
	SDSJotun@jotun.com
Emergency telephone number	Jotun Thailand Limited Phone: + 66 2 022 9888 ext. 2100, 2400, 2402

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 1 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3		
GHS label elements			
Hazard pictograms			
Signal word	: Danger.		
Hazard statements	 H226 - Flammable liquid and vapour. H318 - Causes serious eye damage. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H412 - Harmful to aquatic life with long lasting effects. 		
Precautionary statements			

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Section 2. Hazards identification

Prevention	: P280 Wear protective gloves Wear eve or face protection
Frevenuori	 P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P233 - Keep container tightly closed.
	P261 - Avoid breathing vapour.
	P271 - Use only outdoors or in a well-ventilated area.
	P273 - Avoid release to the environment.
	P264 - Wash hands thoroughly after handling.
Response	: P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
	P302 + P352 + P362 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention. P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes.
	minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
Storage	 P405 - Store locked up. P403 - Store in a well-ventilated place. P235 - Keep cool.
Disposal	 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not esult in classification	: None known.

Section 3. Composition/information on ingredients

		0	
Substance/mixture	: Mixture		
Other means of identification	: Not available.		
CAS number/other identifiers			
CAS number	: Not applicable.		
EC number	: Mixture.		
Product code	: 613		
Ingredient name		%	CAS number
xylene epoxy resin (MW 700-1200) butan-1-ol ethylbenzene hydrocarbons, C9, aromatic		≥10 - <22 ≥10 - ≤25 <10 <10 ≤3	1330-20-7 25036-25-3 71-36-3 100-41-4 64742-95-6

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.

Section 4. First aid measures

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 contact	Causes serious eye damage.
Inhalation	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	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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.

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Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , 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 nitrogen oxides halogenated compounds carbonyl halides 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

se spark-proof tools and water-soluble. haterial and place in an sed waste disposal	Stop leak if w explosion-pro Alternatively,		Methods and Small spill
water-soluble.	Stop leak if w explosion-pro		
	mont and also	ethods and material for contain	M. 0. 1
aterial. May be harmful	pollution (sev to the enviror		
soil, waterways, drains as caused environmental	and sewers.	vironmental precautions	Environmenta
	information ir		
	If specialised	or emergency responders	For emerger
tected personnel from off all ignition sources. e vapour or mist. /hen ventilation is ent.	entering. Do No flares, sm	ersonnel	personnel
tect off a e va	entering. Do No flares, sm		For non-eme personnel

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Section 6. Accidental release measures

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	: 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 oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in 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

<u>Control parameters</u> <u>Occupational exposure limits</u>

Ingredient name		Exposure limits		
xylene butan-1-ol ethylbenzene		Ministry of Labor (Thailand, 8/2017). TWA: 100 ppm 8 hours. Ministry of Labor (Thailand, 8/2017). TWA: 100 ppm 8 hours. Ministry of Labor (Thailand, 8/2017). TWA: 100 ppm 8 hours.		
Recommended monitoring procedures	atmosphere or b of the ventilation protective equip standards. Refe	ontains ingredients with exposure limits, personal, workplace iological monitoring may be required to determine the effectiveness or other control measures and/or the necessity to use respiratory ment. Reference should be made to appropriate monitoring erence to national guidance documents for methods for the hazardous substances will also be required.		
Appropriate engineering controls	ventilation or oth contaminants be also need to kee	lequate ventilation. Use process enclosures, local exhaust ber engineering controls to keep worker exposure to airborne blow any recommended or statutory limits. The engineering controls bep gas, vapour or dust concentrations below any lower explosive posion-proof ventilation equipment.		
Environmental exposure controls	they comply with cases, fume scr	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	eating, smoking Appropriate tech Contaminated w contaminated cl	rearms and face thoroughly after handling chemical products, before and using the lavatory and at the end of the working period. Iniques should be used to remove potentially contaminated clothing. ork clothing should not be allowed out of the workplace. Wash othing before reusing. Ensure that eyewash stations and safety se to the workstation location.		

Section 8. Exposure controls/personal protection

Eye/face protection	: Safety eyewear complying to EN 166 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.	
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.	
	There is no one glove material or combination of materials that will give unlimited	
	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 glove material.	
	Always ensure that gloves are free from defects and that they are stored and used 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 not be applied once exposure has occurred.	
	Wear suitable gloves tested to EN374. Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber May be used, gloves(breakthrough time) 4 - 8 hours: neoprene, butyl rubber, Viton®, 4H, Teflon, Barricade, CPF 3, Responder, PVC, polyvinyl alcohol (PVA) Not recommended, gloves(breakthrough time) < 1 hour: PE	
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	 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.	
	If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387(as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.	

Section 9. Physical and chemical properties

Appearance		
Physical state	: Liquid.	
Colour	: Various colours.	
Odour	: Characteristic.	
Odour threshold	: Not available.	
рН	Not applicable.	
Melting point	: Not applicable.	
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Section 9. Physical and chemical properties

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Boiling point	:	Lowest known value: 119°C (246.2°F) (butan-1-ol). Weighted average: 134.91°C (274.8°F)
Flash point	1	Closed cup: 25°C (77°F)
Burning time	1	Not applicable.
Burning rate	1	Not applicable.
Evaporation rate	:	Highest known value: 0.84 (ethylbenzene) Weighted average: 0.7compared with butyl acetate
Flammability (solid, gas)	1	Not applicable.
Lower and upper explosive (flammable) limits	:	0.8 - 11.3%
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)
Vapour density	1	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.44 (Air = 1)
Relative density	1	1.266 to 1.396 g/cm ³
Solubility	1	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	1	Lowest known value: 355°C (671°F) (butan-1-ol).
Decomposition temperature	1	Not available.
SADT	1	Not available.
Viscosity	1	Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)
Aerosol product		

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	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
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
xylene butan-1-ol ethylbenzene	LC50 Inhalation Vapour LD50 Oral TDLo Dermal LD50 Oral LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat Rat - Male Rabbit Rat	4300 mg/kg 4300 mg/kg 790 mg/kg	4 hours - - 4 hours - -

Irritation/Corrosion

Section 11. Toxicological information

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

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
xylene	Category 3	Not applicable.	Respiratory tract irritation
butan-1-ol		Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
hydrocarbons, C9, aromatic		Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	Not determined	hearing organs

Aspiration hazard

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

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: 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

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Section 11. Toxicological information

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Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing	
Ingestion	: Adverse symptoms may include the following: stomach pains	
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur	
Eye contact	: Adverse symptoms may include the following: pain watering redness	
Potential chronic heal	Ith effects	

Potential chronic health effect	<u>715</u>
General	: 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.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
	6279.62 mg/kg 5756.64 mg/kg 76.15 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
ethylbenzene hydrocarbons, C9, aromatic	Acute EC50 7.2 mg/l Acute EC50 2.93 mg/l Acute LC50 4.2 mg/l Acute EC50 <10 mg/l Acute IC50 <10 mg/l Acute LC50 <10 mg/l	Algae Daphnia Fish Daphnia Algae Fish	48 hours 48 hours 96 hours 48 hours 72 hours 96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene ethylbenzene hydrocarbons, C9, aromatic		-	Readily Readily Not 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
hydrocarbons, C9, aromatic	-	10 to 2500	high

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Section 12. Ecological information

<u>Mobility in soil</u> Soil/water partition coefficient (K _{oc})	:	Not available.
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 methods** 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 nonrecyclable 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				
	UN	IMDG	ΙΑΤΑ	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	Paint	Paint	Paint	
Transport hazard class(es)	3	3	3	
Packing group	111	111		
Environmental hazards	No.	No.	No.	
Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport 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.	
Additional information	-	Emergency schedules F-E, S-E	-	

Transport in bulk according to : Not available. Annex II of Marpol and the **IBC Code** ADR / RID : Tunnel restriction code: (D/E)

Hazard identification number: 30

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Penguard HB Comp A					
Section 14. Transport information					
	ADR/RID: Viscous substa receptacles < 450 litre ca		apter 2.2.3.1.5 (applicable to		
IMDG	: IMDG: Viscous substance (applicable to receptacles		with paragraph 2.3.2.5		
Section 15. Regulatory information					
Hazardous Substance Act B.E. 2535 (1992)					
<u>Type</u>					
Ingredient name	<u>Type</u>	Authority	Conditions		
	No known specific nationa (including its ingredients).	5 5	ns applicable to this product		
Section 16. Other information					
<u>History</u>					

<u>mistory</u>		
Date of printing	:	28.05.2020
Date of issue/Date of revision	:	28.05.2020
Date of previous issue	:	03.04.2019
Version	:	1.07
Key to abbreviations	:	ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations LogPow = logarithm of the octanol/water partition coefficient
References	1	Not available.

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.

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