

Epoxy HR Comp B

SDS Number: AA00319-0000000111

In accordance with the Standard for Classification and Labeling of Chemical Substance and Safety Data Sheet, Article 10 Paragraph 1

Section 1. Chemical product and company identification

Α.	Product name	: Epoxy HR Comp B
	Product code	: 1506
	Product description	: Hardener.

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

C. Man	ufacturer	:	Chokwang Jotun Ltd. 96, Gwahaksandan 1-ro Gangseo-gu, Busan South Korea Tel: +82 51 797 6000 Fax: +82 51 711 7735 SDSJotun@jotun.com
Eme	ergency telephone	:	H.G.LEE Chokwang Jotun Ltd.
num	Iber		Tel: +82 51 797 6000

Section 2. Hazards identification

A. Hazard classification	: ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
	This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

B. GHS label elements, including precautionary statements .

Symbol	
Signal word	: Danger.
Hazard statements	 H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H373 - May cause damage to organs through prolonged or repeated exposure. (kidneys) H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	 P280 - Wear protective gloves, protective clothing and eye or face protection. P273 - Avoid release to the environment. P260 - Do not breathe vapour or spray. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace.

Section 2. Hazards identification

Response	 P391 - Collect spillage. P304 + P340, P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. P363 - Wash contaminated clothing 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, P310 - 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	: P405 - Store locked up.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

С.

Other hazards which do	: None known.
not result in	
classification	

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

Ingredient name	Common name	Identifiers	%
formaldehyde, polymer with benzenamine, hydrogenated	copolymer of formaldehyde and aniline, hydrogenated	CAS: 135108-88-2	≥40 - ≤45
benzyl alcohol	benzyl alcohol	CAS: 100-51-6	≥35 - ≤40
Formaldehyde polymer with 1,3-benzene dimethanamine and phenol and mixtures which contain 25% or more.	Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis (methylamine)	CAS: 57214-10-5	≤10
m-xylene-alpha,alpha'-diamine	m-phenylenebis (methylamine)	CAS: 1477-55-0	≤6.8
cyclohexanamine, 4,4'-methylenebis-	4.4-Methylenedi (cyclohexanamine)	CAS: 1761-71-3	≤5
salicylic acid	Salicylic acid	CAS: 69-72-7	<3

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

Α.	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.
В.	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.
C.	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.
D.	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.
Е.	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. No specific treatment.
	Specific treatments	1	

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

Α.	Extinguishing media		
	Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
	Unsuitable extinguishing media	:	None known.
В.	Specific hazards arising from the chemical	:	In a fire or if heated, a pressure increase will occur and the container may burst. 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.

Section 5. Firefighting measures

	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
C.	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.
	Special precautions 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.

Section 6. Accidental release measures

Α.	Personal precautions, protective equipment and emergency procedures	:	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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
В.	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.
C .	Methods and material for	co	ntainment and cleaning up
	Small spill	:	Stop leak if without risk. Move containers from spill area. 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. 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

A. <u>Precautions for safe handling</u>

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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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.

Section 7. Handling and storage

B. Conditions for safe storage, including any incompatibilities Store in accordance with local regulations. 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. 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

A. <u>Control parameters</u>

Occupational exposure limits

Ingredient name	Exposure limits
m-xylene-alpha,alpha'-diamine	Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin. CEIL: 0.1 mg/m ³

В.	Appropriate engineering controls	:	If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
	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.
С.	Personal protective equip	om	ent
	Respiratory protection	:	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.
	Eye protection	1	Use safety eyewear designed to protect against splash of liquids.
	Hand protection	:	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 ISO 374-1:2016. Recommended, gloves(breakthrough time) > 8 hours: Viton® (> 0.7 mm), 4H/Silver Shield® (> 0.07 mm), neoprene (> 0.35 mm) May be used, gloves(breakthrough time) 4 - 8 hours: butyl rubber (> 0.4 mm), nitrile rubber (> 0.75 mm), PVC (> 0.5 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.

Section 8. Exposure controls/personal protection

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.
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.

Section 9. Physical and chemical properties

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

А.	Appearance		
	Physical state	1	Liquid.
	Colour	1	Colourless.
В.	Odour	1	Characteristic.
C .	Odour threshold	1	Not applicable.
D.	рН	1	Not applicable.
Е.	Melting/freezing point	1	Not applicable.
F.	Boiling point, initial boiling point, and boiling range	:	Lowest known value: 205.3°C (401.5°F) (benzyl alcohol). Weighted average: 230.7°C (447.3°F)
G.	Flash point	:	Closed cup: 102°C
н.	Evaporation rate	4	0.007 (benzyl alcohol) compared with butyl acetate
Ι.	Flammability (solid, gas)	:	Not applicable.
J.	Lower and upper explosive (flammable) limits	:	1.3 - 13%
К.	Vapour pressure	:	Highest known value: 0.007 kPa (0.05 mm Hg) (at 20°C) (benzyl alcohol). Weighted average: 0.003 kPa (0.02 mm Hg) (at 20°C)
L.	Solubility	:	cold water Not soluble hot water Not soluble
Μ.	Vapour density	:	Highest known value: 3.7 (Air = 1) (benzyl alcohol).
Ν.	Relative density	:	1.07 g/cm ³
O .	Partition coefficient: n- octanol/water	:	Not available.
Ρ.	Auto-ignition temperature	:	Not applicable.
Q.	Decomposition temperature	:	Not available.
R.	Viscosity	1	Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)
S.	Molecular weight	:	Not applicable.
<u>Pa</u>	rticle characteristics		
M	edian particle size	:	Not applicable.

Section 10. Stability and reactivity

Α.	Chemical stability	:	The product is stable.
	Possibility of hazardous reactions	1	Under normal conditions of storage and use, hazardous reactions will not occur.
В.	Conditions to avoid	:	No specific data.
C.	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

There are no data available on the mixture itself. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Ingestion may cause nausea, diarrhea and vomiting.

Α.	Information on likely	: Not available.
	routes of exposure	

Potential acute health effects

th effects
: No known significant effects or critical hazards.
: Harmful if swallowed.
: Causes severe burns. May cause an allergic skin reaction.
: Causes serious eye damage.
<u>s/symptoms</u>
: No specific data.
: Adverse symptoms may include the following: stomach pains
: Adverse symptoms may include the following: pain or irritation redness blistering may occur
: Adverse symptoms may include the following: pain watering redness

B. <u>Health hazards</u>

Acute toxicity					
Product/ingredient name	Result	Species	Dose	Exposure	
formaldehyde, polymer with benzenamine, hydrogenated	LD50 Oral	Rat	300 mg/kg	-	
5	LD50 Oral LD50 Oral	Rat Rat	1230 mg/kg 980 mg/kg	-	

Irritation/Corrosion

Section 11. Toxicological information

	1			1	
Product/ingredient name	Result	Species	Score	Exposure	Observation
benzyl alcohol	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
m-xylene-alpha,alpha'- diamine	Eyes - Severe irritant	Rabbit	-	24 hours 50 µg	-
	Skin - Severe irritant	Rabbit	-	24 hours 750 µg	-
cyclohexanamine, 4,4'- methylenebis-	Eyes - Severe irritant	Rabbit	-	24 hours 10 microliters	-
salicylic acid	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
m-xylene-alpha,alpha'- diamine	skin	Mammal - species unspecified	Sensitising
cyclohexanamine, 4,4'- methylenebis-	skin	Mammal - species unspecified	Sensitising

CMR - ISHA Article 42 Occupational Exposure Limits

Not available.

Mutagenicity

Conclusion/Summary	: No known significant effects or critical hazards.
---------------------------	---

Carcinogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
salicylic acid	-	-	Positive	Rat	Oral: 150 mg/kg	-

Teratogenicity

Conclusion/Summary : No known significant effects or critical hazards. **Specific target organ toxicity (single exposure)**

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name		Route of exposure	Target organs
formaldehyde, polymer with benzenamine, hydrogenated cyclohexanamine, 4,4'-methylenebis-	Category 2	oral	kidneys
	Category 2	-	liver

Aspiration hazard

Not available.

Potential chronic health effects

Chronic toxicity

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.

Date of revision

Section 11. Toxicological information

- : No known significant effects or critical hazards.
- Reproductive toxicity
- : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Epoxy HR Comp B formaldehyde, polymer with benzenamine, hydrogenated	544.5 300	N/A N/A	N/A N/A	24.6 N/A	N/A N/A
benzyl alcohol m-xylene-alpha,alpha'-diamine cyclohexanamine, 4,4'-methylenebis- salicylic acid	1230 980 500 500	N/A N/A N/A N/A	N/A N/A N/A N/A	11 11 N/A N/A	N/A N/A N/A N/A

Section 12. Ecological information

A. Ecotoxicity

This material is toxic to aquatic life with long lasting effects.

Product/ingredient name	Result	Species	Exposure
Formaldehyde polymer with 1,3-benzene dimethanamine and phenol and mixtures which contain 25% or more.	Acute LC50 25.9 mg/l	Fish	96 hours
m-xylene-alpha,alpha'- diamine	Acute EC50 12 mg/l	Algae	72 hours
cyclohexanamine, 4,4'- methylenebis-	Acute EC50 6.84 mg/l	Daphnia	48 hours
-	Acute IC50 140 mg/l	Algae	72 hours
	Acute LC50 46 mg/l	Fish	96 hours
salicylic acid	Acute LC50 32 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Daphnia longispina - Neonate	21 days

B. <u>Persistence and degradability</u>

-	_ T		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl alcohol cyclohexanamine, 4,4'-	-	-	Readily Not readily
methylenebis-			,

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
formaldehyde, polymer with benzenamine, hydrogenated		209 to 219	low
benzyl alcohol m-xylene-alpha,alpha'- diamine	0.87 0.18	<100 2.69	low low
cyclohexanamine, 4,4'- methylenebis-	2.03	-	low
salicylic acid	2.21 to 2.26	-	low

D. Mobility in soil

Section 12. Ecological information

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

Section 13. Disposal considerations

 A. 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.

B. Disposal precautions
 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
A. UN number	UN2735	UN2735	UN2735
B. UN proper shipping name	Polyamines, liquid, corrosive, n.o.s. (m-xylene-alpha,alpha'- diamine, cyclohexanamine, 4,4'-methylenebis-)	Polyamines, liquid, corrosive, n.o.s. (m-xylene-alpha,alpha'- diamine, cyclohexanamine, 4,4'-methylenebis-). Marine pollutant (Formaldehyde, oligomeric reaction products with phenol and m- phenylenebis(methylamine))	Polyamines, liquid, corrosive, n.o.s. (m-xylene-alpha,alpha'- diamine, cyclohexanamine, 4,4'-methylenebis-)
C. Transport hazard class(es)	8	8	8
D. Packing group	П	Ш	11
E. Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional informat	tion		
IMDG	: The marine pollutar	nt mark is not required when trans	sported in sizes of ≤5 L or ≤5 k

 IATA
 Emergency schedules F-A, S-B Segregation Group: 18 - Alkalis

 IATA
 The environmentally hazardous substance mark may appear if required by other transportation regulations.

 ADR/RID
 The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

 Hazard identification number 80 Tunnel code (E)
 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.

Section 14. Transport information

Transport in bulk according : Not available. to IMO instruments

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

Section 15. Regulatory information

			5
Α.	Regulation according to I	SH	A
	ISHA article 117 (Harmful substances prohibited from manufacture)	:	None of the components are listed.
	ISHA article 118 (Harmful substances requiring permission)	:	None of the components are listed.
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	:	Not applicable.
	Exposure Limits of Chem	ica	al Substances and Physical Factors
	The following components m-xylene-alpha,alpha'-dia		
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	None of the components are listed.
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	None of the components are listed.
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	None of the components are listed.
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	None of the components are listed.
В.	Regulation according to (Ch	emicals Control Act
	AREC Article 17 (TRI)	4	None of the components are listed.
	AREC Article 32 (Banned)	:	None of the components are listed.
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.
	AREC Toxic chemicals	:	Not applicable
	AREC Article 32 (Restricted)	:	None of the components are listed.
	CCA Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.

Section 15. Regulatory information

	Existing Chemical Substances Subject to Registration	:	None of the components are listed.
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: Class 3 petroleums - Water-insoluble liquid Threshold: 2000 L Danger category: III Signal word: Contact with sources of ignition prohibited
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	Regulation according to	oth	<u>er foreign laws</u>
	International regulations		
	Chemical Weapon Conv	<u>en</u>	tion List Schedules I, II & III Chemicals
	Not listed.		
	Montreal Protocol		
	Not listed.		
	Stockholm Convention	<u>on</u>	Persistent Organic Pollutants
	Not listed.		
	Rotterdam Convention	on	Prior Informed Consent (PIC)
	Not listed.		
	UNECE Aarhus Protoco	l 01	n POPs and Heavy Metals

Not listed.

Section 16. Other information

A. References	 Registry of Toxic Effects of Chemical Substances United States Environmental Protection Agency ECOTOX
B. Date of issue	: 25.01.2022
Date of revision	: 29.11.2023
C. Version	: 1.04
Date of printing	: 29.11.2023
D. Other	
Indicates information that	at has changed from previously issued version.
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 = 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

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.