

Hardtop XP Comp B

SDS Number: AA00319-000000045

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	: Hardtop XP Comp B
	Product code	: 3240
	Product description	: Hardener.

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

С. М	anufacturer	:	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
	nergency telephone umber	:	H.G.LEE Chokwang Jotun Ltd. Tel: +82 51 797 6000

Section 2. Hazards identification

A. Hazard classification	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
	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 ż

Symbol



Signal word].	
Hazard statements	Flammable liquid and vapour. May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. Harmful to aquatic life with long lasting effect	S.
Precautionary statements		
Prevention	Wear protective gloves, protective clothing an Keep away from heat, hot surfaces, sparks, o . No smoking. Jse only outdoors or in a well-ventilated area Avoid release to the environment. Avoid breathing vapour. Contaminated work clothing should not be all	ppen flames and other ignition

Section 2. Hazards identification

	Response	:	 P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
	Storage	:	P405 - Store locked up. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
	Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
).	Other hazards which do		None known.

С.

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

Section 3. Composition/information on ingredients

Substance/mixture: MixtureOther means of: Not available.identification

Ingredient name	Common name	Identifiers	%
Hexamethylene diisocyanate, oligomers	aliphatic polyisocyanate (PHDI)	CAS: 28182-81-2	≥85 - ≤90
n-butyl acetate	n-butyl acetate	CAS: 123-86-4	<10
hydrocarbons, C9, aromatics	hydrocarbons, C9, aromatics	CAS: 64742-95-6	<10
hexamethylene-di-isocyanate	hexamethylene diisocyanate	CAS: 822-06-0	≤0.3

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	:	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 if irritation occurs.
Β.	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.
C.	Inhalation	:	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. Get medical attention. If necessary, call a poison center or physician. 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

Section 4. First aid measures

for 48 hours.

D.	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 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. 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 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.
	Specific treatments	:	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
В.	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
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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Section 6. Accidental release measures

 A. 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. 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.

Section 6. Accidental release measures

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.
С.	Methods and material for co	ontainment 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 spill 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 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.
В.	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

A. <u>Control parameters</u>

Occupational exposure limits

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
n-butyl acetate hexamethylene-di-isocyanate	Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 200 ppm 15 minutes. TWA: 150 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 0.005 ppm 8 hours.

В.	Appropriate engineering	1	Use only with adequate ventilation. Use process enclosures, local exhaust
	controls		ventilation or other engineering controls to keep worker exposure to airborne
			contaminants below any recommended or statutory limits. The engineering controls
			also need to keep gas, vapour or dust concentrations below any lower explosive
			limits. Use explosion-proof ventilation equipment.

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.

C. <u>Personal protective equipment</u>

Respiratory protection	: Self-contained respiratory equipment must be worn by spray operator, even when good ventilation is provided. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask.
Eye protection	: 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: Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm) Not recommended, gloves(breakthrough time) < 1 hour: neoprene (> 0.35 mm), PVC (> 0.5 mm), Viton® (> 0.7 mm) May be used, gloves(breakthrough time) 4 - 8 hours: 4H/Silver Shield® (> 0.07 mm), butyl rubber (> 0.4 mm), nitrile rubber (> 0.75 mm)
Body protection	 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. 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.

Section 8. Exposure controls/personal protection

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.

Α.	Appearance			
	Physical state	:	Liquid.	
	Colour	1	Yellowish-brown.	
В.	Odour	1	Characteristic.	
C .	Odour threshold	:	Not applicable.	
D.	рН	:	Not applicable.	
Ε.	Melting/freezing point	1	Not applicable.	
F.	Boiling point, initial boiling point, and boiling range	:	Lowest known value: 126°C (258.8°F) (n-butyl acetate). Weighted average: 149.25°C (300.6°F)	
G.	Flash point	1	Closed cup: 47°C	
н.	Evaporation rate	3	1 (n-butyl acetate) compared with butyl acetate	
Т.	Flammability (solid, gas)	:	Not applicable.	
J.	Lower and upper explosive (flammable) limits	:	1.4 - 7.6%	
К.	Vapour pressure	:	lighest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Weighted verage: 0.09 kPa (0.68 mm Hg) (at 20°C)	
L.	Solubility	:	cold water Not soluble hot water Not soluble	
Μ.	Vapour density	1	Highest known value: 4 (Air = 1) (n-butyl acetate).	
Ν.	Relative density	:	1.13 g/cm³	
O .	Partition coefficient: n- octanol/water	:	Not available.	
Ρ.	Auto-ignition temperature	:	Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9, aromatics).	
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.	

Particle characteristics

Median particle size

: Not applicable.

Section 10. Stability and reactivity

Α.	Chemical stability	:	The product is stable.	
	Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will no	t occur.
В.	Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, wel braze, solder, drill, grind or expose containers to heat or sources of ignition.	
C .	Incompatible materials	:		
			Date of revision	: 29.11.2023

Section 10. Stability and reactivity

Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.

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.

A. Information on likely : Not available.

routes of exposure

Potential acute health effects

Inholotion	Leverful if include May access provinciant initation
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Eye contact	: No known significant effects or critical hazards.
Over-exposure sign	<u>s/symptoms</u>
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Eye contact	: No specific data.

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rabbit Rat	>21.1 mg/l >17600 mg/kg 13100 mg/kg	4 hours - -
hexamethylene-di- isocyanate	LC50 Inhalation Dusts and mists	Rat	124 mg/m³	4 hours

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hexamethylene diisocyanate, oligomers	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-
hexamethylene-di- isocyanate	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-

Sensitisation

Section 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result			
Hexamethylene diisocyanate, oligomers	skin	Mammal - species unspecified	Sensitising			
hexamethylene-di- isocyanate	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

Reproductive toxicity

Not available.

Teratogenicity

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

Product/ingredient name	Category	Route of exposure	Target organs
Hexamethylene diisocyanate, oligomers	Category 3	-	Respiratory tract irritation
n-butyl acetate	Category 3	-	Narcotic effects
hydrocarbons, C9, aromatics	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
hexamethylene-di-isocyanate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
hydrocarbons, C9, aromatics	ASPIRATION HAZARD - Category 1

Potential chronic health effects

Chronic toxicity

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.
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 (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Hardtop XP Comp B	N/A	N/A	N/A	333.3	1.7
hexane, 1,6-diisocyanato-, homopolymer	N/A	N/A	N/A	N/A	1.5
n-butyl acetate	13100	N/A	N/A	N/A	N/A
hexamethylene-di-isocyanate	N/A	N/A	N/A	0.5	N/A

Section 12. Ecological information

A. <u>Ecotoxicity</u>

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

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

B. Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
hydrocarbons, C9, aromatics	-	-	Not readily	

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
Hexamethylene diisocyanate, oligomers	5.54	367.7	low	
n-butyl acetate hydrocarbons, C9,	2.3 -	- 10 to 2500	low high	
aromatics hexamethylene-di- isocyanate	0.02	57.63	low	

D. Mobility in soil

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

E. Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Α.	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.
В.	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. 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

Section 14. Transport information

			UN	IMDG		ΙΑΤΑ
A. UN number	UN1866			UN1866		UN1866
B. UN proper shipping name	Resin so	olut	ion	Resin solution		Resin solution
C. Transport hazard class(es)	3	•		3		3
D. Packing group	ш			Ш		Ш
E. Environmental hazards	No.			No.		No.
Additional informat	tion					
UN		1	UN: Viscous substa receptacles < 450 li	5	ss 3, ref. 2.3	3.2.5 (only applicable to
IMDG		1	Emergency sched	<u>ules</u> F-E, <u>S-E</u>		
				stance. Transport in a eceptacles < 450 litre		with 2.3.2.5 of the IMDG Code
ADR/RID		:	Hazard identification number 30 Tunnel code (D/E)			
			ADR/RID: Viscous substance. Not goods of class 3, ref. 2.2.3.1.5 (only applicable receptacles < 450 litre capacity).			ref. 2.2.3.1.5 (only applicable to
F. 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 in bulk according : Not available. to IMO instruments		Not available.				

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

Section 15. Regulatory information

A. Regulation according to ISHA

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 Chen	nical Substances and Physical Factors
The following component n-butyl acetate hexamethylene-di-isocyal	

Date of revision

	bottori io. Rogati		
	ISHA Enforcement Regs Annex 19 (Exposure standards established	:	None of the components are listed.
	for harmful factors)		
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: n-butyl acetate
	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)		The following components are listed: n-butyl acetate
В.	Regulation according to	Ch	emicals Control Act
	AREC Article 17 (TRI)	1	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.
	Existing Chemical Substances Subject to Registration	:	The following components are listed: Hexamethylene diisocyanate
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 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>ier foreign laws</u>
	International regulations		
	Chemical Weapon Conv	en	tion List Schedules I, II & III Chemicals
	Not listed.		
	Montreal Protocol		
	Not listed.		
	Stockholm Convention	on	Persistent Organic Pollutants
	Not listed.		
	Rotterdam Convention of Not listed.	<u>on</u>	Prior Informed Consent (PIC)

Section 15. Regulatory information

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

Α.	References	1	 Registry of Toxic Effects of Chemical Substances United States Environmental Protection Agency ECOTOX
В.	Date of issue	:	25.01.2022
	Date of revision	:	29.11.2023
С.	Version	:	2.03
	Date of printing	:	29.11.2023
D.	Other		
	Indicates information that	ha	s 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.

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