SAFETY DATA SHEET **JOTUN**

Jotun Inhibitor 51

SDS Number: AA00319-0000000234

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

A. Product name Jotun Inhibitor 51 ÷ **Product code** : 21860 **Product description** : Organic.

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

Identified uses

Use in coatings - Industrial use Use in coatings - Professional use

C.	Manufacturer	:	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
	Emergency telephone number	:	H.G.LEE Chokwang Jotun Ltd. Tel: +82 51 797 6000

Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 2 REPRODUCTIVE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
	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** ż



Signal word	: Danger.
Hazard statements	 H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H332 - Harmful if inhaled. H341 - Suspected of causing genetic defects. H351 - Suspected of causing cancer. H361 - Suspected of damaging fertility or the unborn child.

Section 2. Hazards identification

	H372 - Causes damage to organs through prolonged or repeated exposure. (hearing organs)
	H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention :	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P260 - Do not breathe vapour. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
Response :	 P391 - Collect spillage. P308 + P313 - IF exposed or concerned: Get medical advice or attention. 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. P332 + P313 - If skin irritation 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 :	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

Mixture Not available.

Substance/mixture	1
Other means of	:
identification	

Ingredient name	Common name	Identifiers	%
styrene	styrene	CAS: 100-42-5	≥75 - ≤80
ethanol	ethanol	CAS: 64-17-5	≥20 - ≤25
propan-2-ol	propan-2-ol	CAS: 67-63-0	≤3
1,4-benzoquinone	Parabenzoe quinone	CAS: 106-51-4	<2.5

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.
В.	Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. 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.
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. 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	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific treatments	1	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.

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	:	Highly 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 toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide
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.

Section 5. Firefighting measures

Special precautions for	: Promptly isolate the scene by removing all persons from the vicinity of the incident if
fire-fighters	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

	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.
	procedures		Provide adequate ventilation. Wear appropriate respirator when ventilation is
			inadequate. Put on appropriate personal protective equipment.

B. 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 containment 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

Α.	Precautions for safe handling				
	Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.			
	Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.			

Section 7. Handling and storage

Β.	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.
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Section 8. Exposure controls/personal protection

A. <u>Control parameters</u>

Occupational exposure limits

Ingredient name	Exposure limits
styrene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). Absorbed
	through skin.
	STEL: 40 ppm 15 minutes.
	TWA: 20 ppm 8 hours.
ethanol	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 1000 ppm 8 hours.
propan-2-ol	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
1,4-benzoquinone	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 0.1 ppm 8 hours.

В.	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 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.
С.	Personal protective equip	<u>m</u>	<u>ent</u>
	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	:	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.

Section 8. Exposure controls/personal protection

	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) Not recommended, gloves(breakthrough time) < 1 hour: PVC (> 0.5 mm) May be used, gloves(breakthrough time) 4 - 8 hours: butyl rubber (> 0.4 mm), neoprene (> 0.35 mm), Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm), nitrile rubber (> 0.75 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.
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. 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	:	Clear.
В.	Odour	:	Characteristic.
С.	Odour threshold	:	Not applicable.
D.	рН	:	Not applicable.
Ε.	Melting/freezing point	1	Not applicable.
F.	Boiling point, initial boiling point, and boiling range	:	>36°C (>96.8°F)
G.	Flash point	:	Closed cup: 13°C
н.	Evaporation rate	:	Highest known value: 1.7 (ethanol) Weighted average: 0.82compared with butyl acetate
Ι.	Flammability (solid, gas)	:	Not applicable.
J.	Lower and upper explosive (flammable) limits	:	0.9 - 19%
K.	Vapour pressure	:	Highest known value: 5.7 kPa (42.9 mm Hg) (at 20°C) (ethanol). Weighted average: 2.05 kPa (15.38 mm Hg) (at 20°C)
L.	Solubility	:	cold water Not soluble hot water Not soluble
Μ.	Vapour density	:	Highest known value: 3.6 (Air = 1) (styrene). Weighted average: 3.12 (Air = 1)
Ν.	Relative density	:	0.91 g/cm ³
0.	Partition coefficient: n- octanol/water	:	Not available.

Section 9. Physical and chemical properties

P	. Auto-ignition temperature	1	Lowest known value: 455°C (851°F) (ethanol).
Q	. Decomposition temperature	1	Not available.
	. Viscosity . Molecular weight		Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt) 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 not occur.
в.	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.
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

Α.	Information on likely routes of exposure	:	Not available.			
	Potential acute health effe	ect	ects			
	Inhalation	1	Harmful if inhaled.			
	Ingestion	:	No known significant effects or critical hazards.			
	Skin contact	:	Causes skin irritation.			
	Eye contact	1	Causes serious eye irritation.			
	Over-exposure signs/sym	pt	<u>oms</u>			
	Inhalation	:	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations			
	Ingestion	:	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations			
	Skin contact	:	Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations			
	Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness			
В.	Health hazards					
	Acute toxicity					

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure	
styrene	LC50 Inhalation Vapour	Rat	11.8 mg/l	4 hours	
-	LD50 Dermal	Rat	2000 mg/kg	-	
	LD50 Oral	Rat	5000 mg/kg	-	
ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m ³	4 hours	
propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-	
	LD50 Oral	Rat	5000 mg/kg	-	
1,4-benzoquinone	LD50 Oral	Rat	130 mg/kg	-	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
styrene	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	100 Percent	-
ethanol	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Skin - Mild irritant	Rabbit	-	400 milligrams	-
propan-2-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Skin - Mild irritant	Rabbit	-	milligrams 500 milligrams	-

Sensitisation

Not available.

CMR - ISHA Article 42 Occupational Exposure Limits

Product/ingredient name	Identifiers	Classification
Phenyl ethylene		CARCINOGENICITY - Category 2 REPRODUCTIVE TOXICITY - Category 2
Ethanol	CAS: 64-17-5	CARCINOGENICITY - Category 1A

Mutagenicity

Conclusion/Summary : Suspected of causing genetic defects.

Carcinogenicity

Conclusion/Summary : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH
styrene	-		Reasonably anticipated to be a human carcinogen.	A3
1,4-benzoquinone	-	3	-	A4

Reproductive toxicity

Not available.

Teratogenicity

Conclusion/Summary : Suspected of damaging the unborn child.

<u>Specific target organ toxicity (single exposure)</u>

Product/ingredient name	•••	Route of exposure	Target organs
propan-2-ol 1,4-benzoquinone	Category 3 Category 3		Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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Section 11. Toxicological information

Product/ingredient name		Route of exposure	Target organs
Jotun Inhibitor 51 (MM-WCS) Re-filled. See private remark.	Category 1	-	hearing organs
styrene	Category 1	-	hearing organs

Aspiration hazard

Not available.

Potential chronic health	<u>effects</u>
Chronic toxicity	
General	: Causes damage to organs through prolonged or repeated exposure.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: Suspected of causing genetic defects.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.

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)
Jotun Inhibitor 51	13000.0	N/A	N/A	15.7	N/A
styrene	N/A	N/A	N/A	11.8	N/A
ethanol	7000	N/A	N/A	124.7	N/A
propan-2-ol	5000	12800	N/A	N/A	N/A
p-benzoquinone	130	N/A	N/A	N/A	N/A

Section 12. Ecological information

A. <u>Ecotoxicity</u>

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

Product/ingredient name	Result	Species	Exposure
propan-2-ol	0	Daphnia - Daphnia magna Fish - Rasbora heteromorpha	48 hours 96 hours
1,4-benzoquinone	Acute LC50 45 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

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

Produ	uct/ingredient name	Aquatic half-life	Photolysis	Biodegradability
1,4-be	enzoquinone	-	-	Readily

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
styrene	0.35	13.49	low
ethanol	-0.35	-	low
propan-2-ol	0.05	-	low
1,4-benzoquinone	0.2	-	low

D. Mobility in soil

E. Other adverse effects

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

: No known significant effects or critical hazards.

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. 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	IATA
A. UN number	UN1993	UN1993	UN1993
B. UN proper shipping name	Flammable liquid, n.o.s. (styrene, ethanol)	Flammable liquid, n.o.s. (styrene, ethanol)	Flammable liquid, n.o.s. (styrene, ethanol)
C. Transport hazard class(es)	3	3	3
D. Packing group	II	II	II
E. Environmental hazards	No.	No.	No.
Additional informat	tion		
IMDG	: Emergency sch	<u>nedules</u> F-E, <u>S-E</u>	

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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

Α

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 : None of the components are listed. (Harmful substances prohibited from manufacture)

Section 15. Regulatory information

	5		<i>,</i>
	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	Il Substances and Physical Factors
	The following components styrene ethanol propan-2-ol 1,4-benzoquinone	s ha	ave an OEL:
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	The following components are listed: styrene
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: styrene, isopropyl alcohol
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Styrene, Isopropyl alcohol
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: styrene, isopropyl alcohol
В.	Regulation according to (Ch	emicals Control Act
	AREC Article 17 (TRI)	1	The following components are listed: Styrene, 2-Propanol, 1,4-benzoquinone
	AREC Article 32 (Banned)	1	None of the components are listed.
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.
	AREC Toxic chemicals	1	Toxic
	AREC Article 32 (Restricted)	:	None of the components are listed.
	CCA Article 39 (Accident Precaution Chemicals)	:	The following components are listed: styrene, 1,4-benzoquinone
	Existing Chemical Substances Subject to Registration	:	The following components are listed: Vinylbenzene
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 2. Class 1 petroleums - Water-insoluble liquid Threshold: 200 L Danger category: II 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.

Section 15. Regulatory information

E. Regulation according to other foreign laws

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

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	: 1.03
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

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.

N/A = Not available SGG = Segregation Group UN = United Nations

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.

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)