

SAFETY DATA SHEET



Jotatemp 1000 HT Comp A

SDS Number: AA00319-0000000422

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 : Jotatemp 1000 HT Comp A
Product code : 49846
Product description : Paint.

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

Identified uses

Use in coatings - Industrial 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

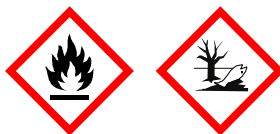
Emergency telephone number : H.G.LEE Chokwang Jotun Ltd.
Tel: +82 51 797 6000

Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 3
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 : Warning.

Hazard statements : H226 - Flammable liquid and vapour.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : 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.
P273 - Avoid release to the environment.

Response : P391 - Collect spillage.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Section 2. Hazards identification

- Storage** : Not applicable.
- Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

C.

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

Section 3. Composition/information on ingredients

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

Ingredient name	Common name	Identifiers	%
Siloxanes and Silicones, Me methoxy, polymers with Me silsesquioxanes	silicone resin	CAS: 68037-85-4	≥15 - ≤20
trizinc bis(orthophosphate)	trizinc bis(orthophosphate)	CAS: 7779-90-0	≥10 - ≤15
glass, oxide, chemicals	glass, oxide, chemicals	CAS: 65997-17-3	≥10 - ≤15
xylene	xylene	CAS: 1330-20-7	≤7.4
dipropylene glycol methyl ether	dipropyleneglycol monomethylether	CAS: 34590-94-8	≤5
titanium dioxide	titanium dioxide	CAS: 13463-67-7	≤5
2-butoxyethanol	2-butoxyethanol	CAS: 111-76-2	≤2.5
ethylbenzene	ethylbenzene	CAS: 100-41-4	≤3
zeolite	zeolite	CAS: 1318-02-1	≤3
Methyl alcohol	methanol	CAS: 67-56-1	≤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

- A. Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- B. Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- C. Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- D. Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.
- E. Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 4. First aid measures

- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

A. Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

- B. 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 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
phosphorus oxides
metal oxide/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. 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

Section 6. Accidental release measures

emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

A. Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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.

Any gas developed during storage will remain in the container when the temperature is decreased. To avoid splash of paint/thinner when opening the containers release pressure by making a small hole in the plastic seal in the center of the lid.

- B. Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

A. Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
xylene	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Xylene]
	STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
dipropylene glycol methyl ether	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Dipropylene glycol methyl ether]
	Absorbed through skin.
	STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
2-butoxyethanol	Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin.
	TWA: 20 ppm 8 hours.
ethylbenzene	Ministry of Employment and Labor (Republic of Korea, 1/2020).
	STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
Methyl alcohol	Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin.

Section 8. Exposure controls/personal protection

STEL: 250 ppm 15 minutes.
TWA: 200 ppm 8 hours.

- B. 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.
- C. Personal protective equipment**
- 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. 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. May be used, gloves(breakthrough time) 4 - 8 hours: neoprene (> 0.35 mm), PVC (> 0.5 mm) Recommended, gloves(breakthrough time) > 8 hours: fluor rubber (> 0.35 mm), Teflon (> 0.35 mm), Viton® (> 0.7 mm), 4H/Silver Shield® (> 0.07 mm), polyvinyl alcohol (PVA) (> 0.3 mm), nitrile rubber (> 0.75 mm), butyl rubber (> 0.4 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** : Use chemical-resistant protective suit / disposable overall. 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.

A. Appearance

- Physical state** : Liquid.
- Colour** : Grey. Aluminium
- B. Odour** : Alcohol-like.
- C. Odour threshold** : Not applicable.
- D. pH** : Not applicable.
- E. Melting/freezing point** : Not applicable.
- F. Boiling point, initial boiling point, and boiling range** : Lowest known value: 136.1°C (277°F) (ethylbenzene). Weighted average: 156.96°C (314.5°F)
- G. Flash point** : Closed cup: 24°C
- H. Evaporation rate** : Highest known value: 0.84 (ethylbenzene) Weighted average: 0.46 compared with butyl acetate
- I. Flammability (solid, gas)** : Not applicable.
- J. Lower and upper explosive (flammable) limits** : Greatest known range: Lower: 1.1% Upper: 14% (dipropylene glycol methyl ether)
- K. Vapour pressure** : Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.8 kPa (6 mm Hg) (at 20°C)
- L. Solubility** : cold water Very slightly soluble
hot water Very slightly soluble
- M. Vapour density** : Highest known value: 5.1 (Air = 1) (dipropylene glycol methyl ether). Weighted average: 4.17 (Air = 1)
- N. Relative density** : 1.762 to 1.785 g/cm³
- O. Partition coefficient: n-octanol/water** : Not available.
- P. Auto-ignition temperature** : Lowest known value: 207°C (404.6°F) (dipropylene glycol methyl ether).
- Q. Decomposition temperature** : Not available.
- R. Viscosity** : 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

- A. Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- B. 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

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 routes of exposure : Not available.

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Eye contact : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No specific data.
Ingestion : No specific data.
Skin contact : No specific data.
Eye contact : No specific data.

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Vapour	Rat	11 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDL ₀ Dermal	Rabbit	4300 mg/kg	-
2-butoxyethanol	LD50 Oral	Guinea pig - Male, Female	1414 mg/kg	-
	LD50 Oral	Rat - Male, Female	1300 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
dipropylene glycol methyl ether	Eyes - Mild irritant	Human	-	8 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
titanium dioxide	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Human	-	72 hours	-
2-butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

Sensitisation

Not available.

CMR - ISHA Article 42 Occupational Exposure Limits

Section 11. Toxicological information

Product/ingredient name	Identifiers	Classification
Mineral wool fiber	CAS: 65997-17-3	CARCINOGENICITY - Category 2
Titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
2-Butoxyethanol	CAS: 111-76-2	CARCINOGENICITY - Category 2
Ethyl benzene	CAS: 100-41-4	CARCINOGENICITY - Category 2

Mutagenicity

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

Carcinogenicity

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

Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH
glass, oxide, chemicals	-	3	-	A4
2-butoxyethanol	-	3	-	A3
ethylbenzene	-	2B	-	A3

Reproductive toxicity

Not available.

Teratogenicity

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
Methyl alcohol	Category 1	-	-

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Potential chronic health effects

Chronic toxicity

General : No known significant effects or critical hazards.

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

Section 11. Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Jotatemp 1000 HT Comp A	28082.2	14711.4	N/A	60.5	N/A
xylene	4300	1100	N/A	11	N/A
2-butoxyethanol	1200	N/A	N/A	3	N/A
ethylbenzene	3500	N/A	N/A	11	N/A
methanol	100	300	N/A	3	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
trizinc bis(orthophosphate)	Acute LC50 0.14 mg/l Chronic NOEC 0.1 mg/l	Fish - Oncorhynchus mykiss Micro-organism	96 hours 4 hours
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
titanium dioxide	Acute LC50 13400 µg/l Fresh water Acute LC50 3 mg/l Fresh water	Fish - Pimephales promelas Crustaceans - Ceriodaphnia dubia - Neonate	96 hours 48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
2-butoxyethanol	Acute LC50 >1000000 µg/l Marine water Acute EC50 1000 mg/l Fresh water Acute LC50 1000 mg/l Marine water	Fish - Fundulus heteroclitus Daphnia - Daphnia magna Crustaceans - Chaetogammarus marinus - Young	96 hours 48 hours 48 hours
ethylbenzene	Acute EC50 7700 µg/l Marine water Acute EC50 2.93 mg/l Acute LC50 4.2 mg/l	Algae - Skeletonema costatum Daphnia Fish	96 hours 48 hours 96 hours
zeolite	Acute LC50 377.17 mg/l Chronic NOEC 200000 µg/l Fresh water	Daphnia Daphnia - Daphnia magna	96 hours 21 days

B. Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
trizinc bis(orthophosphate)	-	-	Not readily
xylene	-	-	Readily
dipropylene glycol methyl ether	-	-	Readily
ethylbenzene	-	-	Readily

C. Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
trizinc bis(orthophosphate)	-	60960	high
xylene	3.12	8.1 to 25.9	low
dipropylene glycol methyl ether	0.004	-	low
2-butoxyethanol	0.81	-	low
ethylbenzene	3.6	-	low
zeolite	-	0.59 to 0.95	low
Methyl alcohol	-0.77	<10	low

D. Mobility in soil

Section 12. Ecological information

Soil/water partition coefficient (K_{oc}) : Not available.





E. Other adverse effects : 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	UN1263	UN1263	UN1263
B. UN proper shipping name	Paint	Paint. Marine pollutant (trizinc bis(orthophosphate))	Paint
C. Transport hazard class(es)	3 	3  	3 
D. Packing group	III	III	III
E. Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. **Emergency schedules** F-E, S-E

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** 30
Tunnel code (D/E)

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 to IMO instruments : Not available.

Section 14. Transport information

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 Chemical Substances and Physical Factors

The following components have an OEL:

Xylene
dipropylene glycol methyl ether
2-butoxyethanol
ethylbenzene
Methyl alcohol

**ISHA Enforcement Regs
Annex 19 (Exposure
standards established
for harmful factors)** : The following components are listed: methanol

**ISHA Enforcement Regs
Annex 21 (Harmful
factors subject to Work
Environment
Measurement)** : The following components are listed: xylene, titanium dioxide, 2-butoxyethanol /
EGBE, ethyl benzene, aluminum and its compounds

**ISHA Enforcement Regs
Annex 22 (Harmful
Factors Subject to
Special Health Check-
up)** : The following components are listed: Glass fiber dusts, Xylene, 2-Butoxyethanol,
Ethyl benzene, Aluminum and its compounds

**Standard of Industrial
Safety and Health
Annex 12 (Hazardous
substances subject to
control)** : The following components are listed: zinc and its compounds, xylene, titanium
dioxide, 2-butoxyethanol, ethyl benzene, aluminum and its compounds

B. Regulation according to Chemicals Control Act

AREC Article 17 (TRI) : The following components are listed: Zinc and its compounds, Xylene including o-,m-,
,p- isomer, Ethylbenzene, Aluminium and its compounds

**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.

Section 15. Regulatory information

- CCA Article 39 (Accident Precaution Chemicals)** : None of the components are listed.
- Existing Chemical Substances Subject to Registration** : The following components are listed: Trizinc bis(orthophosphate, Xylene, Methanol, Quartz, Lead
- C. Dangerous Materials Safety Management Act** : **Class:** Class 4 - Flammable Liquid
Item: 4. Class 2 petroleums - Water-insoluble liquid
Designated quantity: 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.
- 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** : 11.07.2024
- C. Version** : 1.08
- Date of printing** : **11.07.2024**

D. Other

Indicates information that 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 = Intermediate Bulk Container
 - IMDG = International Maritime Dangerous Goods
 - LogPow = logarithm of the octanol/water partition coefficient
 - MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 - N/A = Not available
 - SGG = Segregation Group
 - UN = United Nations

Notice to reader

Section 16. Other information

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.