# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name : Jotatemp 250 ALU Comp A

Product code: 35142Product description: Paint.Product type: Liquid.

Other means of : Not available.

identification

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

### 1.3 Details of the supplier of the safety data sheet

Jotun Boya Sanayi ve Ticaret A.Ş.

Balabandere Caddesi, Hilpark Suites Sitesi No: 10, İstinye 34460 Sarıyer, İstanbul

Tel. +90 212 279 7878 SDSJotun@jotun.com

Başvurulacak Kişi: Deren Ercan deren.metiner@jotun.com

Original preparation date : 24.07.2023

#### 1.4 Emergency telephone number

### **National Poison Information Center**

- +90 224 442 82 93 Uludağ Üniversitesi Zehir Danışma Merkezi (www.uludag.edu.tr/uludag/zehir.html)
- a. ACİL DURUM TELEFONU: Zehirlenme durumlarında gerektiğinde ulusal zehir merkezinin (UZEM) 114 nolu telefonunu arayınız.
- b. ACİL İLK YARDIM MERKEZİ:112

c. İTFAİYE:110

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to regulation SEA: RG.-10/12/2020-31330

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412

Aquatic Cilionic 3, 11412

The product is classified as hazardous according to Regulation SEA: RG.-10/12/2020-31330.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

Hazard pictograms







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# **SECTION 2: Hazards identification**

Signal word : Danger.

**Hazard statements** : H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage.

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

General : Not applicable.

**Prevention**: P280 - Wear protective gloves. Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

Response : P362 + P364 - Take off contaminated clothing and wash it 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 : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

**Hazardous ingredients** : 2,2-bis[4(2,3-epoksipropoksi)fenil]-propan

butan-1-ol

: Not applicable.

Supplemental label

elements

Contains epoxy constituents. May produce an allergic reaction.

Annex 17 - Restrictions on the manufacture, placing on the market and use of

certain dangerous

substances, mixtures and

articles

**Special packaging requirements** 

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB

This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: None known.

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	SEA: RG10/12/2020-31330	Type
2,2-bis[4(2,3-epoksipropoksi) fenil]-propan	EC: 216-823-5 CAS: 1675-54-3	≥10 - ≤23	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
xylene	EC: 215-535-7 CAS: 1330-20-7	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	[1] [2]

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# **SECTION 3: Composition/information on ingredients**

			9	
			Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	
butan-1-ol	EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
ethylbenzene	EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
Solvent naphtha (petroleum), light arom.	EC: 265-199-0 CAS: 64742-95-6	≤1.2	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	EC: 219-784-2 CAS: 2530-83-8	≤3	Eye Dam. 1, H318 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	[1]

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, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

**Eye contact** 

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

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.

**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.

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# **SECTION 4: First aid measures**

#### 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

### **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.

### 4.2 Most important symptoms and effects, both acute and delayed

# Potential acute health effects

**Eye contact** : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion** : Adverse symptoms may include the following:

stomach pains

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: 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.

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# SECTION 5: Firefighting measures

### **Hazardous thermal** decomposition products

Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides metal oxide/oxides

### 5.3 Advice for firefighters

# Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

## **Special protective** equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

### For non-emergency personnel

: 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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 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.

### 6.3 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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

### 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

#### **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. 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.

# 7.2 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.

See Technical Data Sheet / packaging for further information.

Regulation on the prevention of major industrial accidents and reduction of their effects - Reporting thresholds

### **Danger criteria**

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
<b>x</b> ýlene	TR ISGGM OEL (Turkey, 12/2013). [Xylene (pure and mixed isomers)] Absorbed through skin.
	TWA: 221 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 442 mg/m³ 15 minutes.
	STEL: 100 ppm 15 minutes.
butan-1-ol	ACGIH TLV (United States, 1/2023).
	TWA: 20 ppm 8 hours.
ethylbenzene	TR ISGGM OEL (Turkey, 12/2013). Absorbed through skin. TWA: 442 mg/m³ 8 hours.

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# **SECTION 8: Exposure controls/personal protection**

TWA: 100 ppm 8 hours. STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes.

## **Biological exposure indices**

No exposure indices known.

# Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
2,2-bis[4(2,3-epoksipropoksi)fenil]-	DNEL	Long term Dermal	89.3 µg/kg	General	Systemic
propan	DNEL	Long form Oral	bw/day	population General	Systemia
	DINEL	Long term Oral	0.5 mg/kg bw/day	population	Systemic
	DNEL	Long term Dermal	0.75 mg/	Workers	Systemic
	DIVLL	Long term Dermai	kg bw/day	WOIKEIS	Systemic
	DNEL	Long term	0.87 mg/m <sup>3</sup>	General	Systemic
	DIVLL	Inhalation	0.67 mg/m	population	Systernic
	DNEL	Long term	4.93 mg/m <sup>3</sup>		Systemic
	DIVLL	Inhalation	4.95 mg/m	WOIKEIS	Cysternic
kylene	DNEL	Long term Oral	12.5 mg/	General	Systemic
tylene	DIVLL	Long term Oral	kg bw/day	population	Systernic
	DNEL	Long term	65.3 mg/m <sup>3</sup>		Local
	DIVLL	Inhalation	03.3 mg/m	population	Local
	DNEL	Long term	65.3 mg/m <sup>3</sup>		Systemic
	DIVEL	Inhalation	03.3 mg/m	population	Systernic
	DNEL		125 mg/kg	General	Systemia
	DINEL	Long term Dermal	125 mg/kg		Systemic
	DNEL	Long form Dormal	bw/day	population	Systemia
	DINEL	Long term Dermal	212 mg/kg	Workers	Systemic
	DNE	Law er ta was	bw/day	\\/\ombos	Lacal
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Local
	DNE	Inhalation	004/3	\^/	0
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Systemic
	DAIE	Inhalation	000	0	1 1
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
	DAIE	Inhalation	000	population	0
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Systemic
	5.151	Inhalation	440 / 0	population	
	DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Local
	DATE	Inhalation	440 / 2	347 1	
	DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Systemic
	5.151	Inhalation	4 5005		
butan-1-ol	DNEL	Long term Oral	1.5625 mg/	General	Systemic
	DATE		kg bw/day	population	
	DNEL	Long term Dermal	3.125 mg/	General	Systemic
	5.151		kg bw/day	population	
	DNEL	Long term	55.357 mg/	General	Systemic
	D	Inhalation	m³	population	l
	DNEL	Long term	155 mg/m <sup>3</sup>		Local
		Inhalation	0.40	population	l
	DNEL	Long term	310 mg/m <sup>3</sup>	Workers	Local
		Inhalation			l
	l —				
ethylbenzene	DMEL	Long term Inhalation	442 mg/m <sup>3</sup>	Workers	Local

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# SECTION 8: Exposure controls/personal protection

•		<u> </u>			
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic
	DNEL	Long term Oral	1 6 mg/kg	General	Systemic
	DINEL	Long term Oral	1.6 mg/kg		Systemic
	DAIE	1	bw/day	population	0
	DNEL	Long term	15 mg/m <sup>3</sup>	General	Systemic
	DATE	Inhalation	77 / 2	population	
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term	293 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
Solvent naphtha (petroleum), light	DNEL	Long term Dermal	12.5 mg/	Workers	Systemic
arom.			kg bw/day		
	DNEL	Long term	151 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	J		
	DNEL	Long term Dermal	7.5 mg/kg	General	Systemic
			bw/day	population	,
			,	[Consumers]	
	DNEL	Long term	32 mg/m³	General	Systemic
		Inhalation	3	population	,
				[Consumers]	
	DNEL	Long term Oral	7.5 mg/kg	General	Systemic
			bw/day	population	,
				[Consumers]	
[3-(2,3-epoxypropoxy)propyl]	DNEL	Long term Oral	5 mg/kg	General	Systemic
trimethoxysilane			bw/day	population	
a	DNEL	Long term Dermal	5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	10 mg/kg	Workers	Systemic
			bw/day		- ,
	DNEL	Long term	17 mg/m <sup>3</sup>	General	Systemic
	D. V.L.	Inhalation	.,9/111	population	Cyclonic
	DNEL	Long term	70.5 mg/m <sup>3</sup>	Workers	Systemic
	5112	Inhalation	7 0.0 mg/m	TTOINGIO	Cycloniio
	DNEL	Short term	26400 mg/	General	Systemic
	DIVLE	Inhalation	20400 mg/	population	Cystoniio
		minalation	111	Population	

# **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
2,2-bis[4(2,3-epoksipropoksi)fenil]-propan	Fresh water	0.006 mg/l	-
	Marine	0.0006 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	0.996 mg/l	-
	Marine water sediment	0.0996 mg/l	_
	Soil	0.196 mg/l	-
ylene	Fresh water	0.327 mg/l	_
,	Marine	0.327 mg/l	_
	Sewage Treatment Plant	6.58 mg/l	-
	Fresh water sediment	12.46 mg/kg dwt	_
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg dwt	-
outan-1-ol	Fresh water	0.082 mg/l	_
	Marine	0.0082 mg/l	_
	Sewage Treatment Plant	2476 mg/l	-
	Fresh water sediment	0.178 mg/kg dwt	_
	Marine water sediment	0.0178 mg/kg dwt	_
	Soil	0.015 mg/kg dwt	_
thylbenzene	Fresh water	0.1 mg/l	-
,	Marine	0.01 mg/l	-

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# **SECTION 8: Exposure controls/personal protection**

Sewage Treatment	9.6 mg/l	-
Plant		
	13.7 mg/kg dwt	-
Soil	2.68 mg/kg dwt	-
Secondary Poisoning	20 mg/kg	-

#### 8.2 Exposure controls

# 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.

### **Individual protection measures**

#### 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.

### **Eye/face protection**

: Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

# Skin protection Hand protection

: 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: Viton® (> 0.7 mm), neoprene (> 0.35 mm), butyl rubber (> 0.4 mm), PVC (> 0.5 mm)

Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber (> 0.75 mm), 4H/Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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# SECTION 8: Exposure controls/personal protection

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**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.

Lowest known value: 119°C (246.2°F) (butan-1-ol). Weighted average:

# SECTION 9: Physical and chemical properties

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

### 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid. Colour : Aluminium Odour Characteristic. **Odour threshold** : Not applicable. : Not applicable. Melting point/freezing point

Initial boiling point and

boiling range

Flammability (solid, gas) Upper/lower flammability or

explosive limits

: 0.43 - 11.3%

: Not applicable.

218.42°C (425.2°F)

: Closed cup: 28°C (82.4°F) Flash point

: Lowest known value: 355°C (671°F) (butan-1-ol). **Auto-ignition temperature** 

**Decomposition temperature** : Not available. pН : Not applicable.

**Viscosity** Kinematic (40°C): >20.5 mm<sup>2</sup>/s

Solubility(ies)

Result	
Not soluble	

Partition coefficient: n-octanol/: Not available.

water

Vapour pressure

: Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted

average: 0.4 kPa (3 mm Hg) (at 20°C)

Highest known value: 0.84 (ethylbenzene) Weighted average: 0.7compared

with butyl acetate

: 1.587 g/cm<sup>3</sup>

**Density** 

Vapour density Highest known value: 11.7 (Air = 1) (epoxy resin (MW ≤ 700)). Weighted

average: 8.15 (Air = 1)

**Explosive properties** Not available. **Oxidising properties** : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

#### 9.2 Other information

No additional information.

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# **SECTION 10: Stability and reactivity**

10.1 Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 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.

10.5 Incompatible materials

: Reactive or incompatible with the following materials:

oxidising materials

10.6 Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Shelf life at 23 °C

month(s)

# SECTION 11: Toxicological information

# 11.1 Information on toxicological effects

# **Acute toxicity**

Product/ingredient name	duct/ingredient name Result		Dose	Exposure
2,2-bis[4	LD50 Dermal	Rabbit	20 g/kg	-
(2,3-epoksipropoksi)fenil]-				
propan				
	LD50 Oral	Mouse	15600 mg/kg	-
xylene	LC50 Inhalation Vapour	Rat	20 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
butan-1-ol	LD50 Oral	Rat	790 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

**Conclusion/Summary** 

: Not available.

### **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)
√otatemp 250 ALU Comp A	13157.9	12576.0	N/A	168.0	N/A
xylene	4300	1100	N/A	20	N/A
butan-1-ol	500	N/A	N/A	N/A	N/A
ethylbenzene	3500	N/A	N/A	17.8	N/A

# **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>2</b> ,2-bis[4(2,3-epoksipropoksi) fenil]-propan	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Eyes - Irritant	Mammal - species unspecified	-	-	-

**Conclusion/Summary** 

: Not available.

**Sensitisation** 

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# **SECTION 11: Toxicological information**

Product/ingredient name	Route of exposure	Species	Result
2,2-bis[4(2,3-epoksipropoksi) fenil]-propan	skin	Mammal - species unspecified	Sensitising

**Conclusion/Summary** 

: Not available.

Mutagenicity

**Conclusion/Summary** 

: Not available.

**Carcinogenicity** 

**Conclusion/Summary** : Not available.

**Reproductive toxicity** 

**Conclusion/Summary** : Not available.

**Teratogenicity** 

**Conclusion/Summary** : Not available. Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
kylene	Category 3	-	Respiratory tract irritation
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Solvent naphtha (petroleum), light arom.	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

### 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 ethylbenzene Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely routes : Not available.

of exposure

Potential acute health effects

**Eye contact** : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

: Causes skin irritation. May cause an allergic skin reaction. **Skin contact** 

: No known significant effects or critical hazards. Ingestion

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

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# **SECTION 11: Toxicological information**

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion** : Adverse symptoms may include the following:

stomach pains

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate : No

: Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

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.

Other information : Not available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2,2-bis[4(2,3-epoksipropoksi)	Acute EC50 1.4 mg/l	Daphnia	48 hours
fenil]-propan			
	Acute LC50 3.1 mg/l	Fish - pimephales promelas	96 hours
	Chronic NOEC 0.3 mg/l	Fish	21 days
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
		pugio	
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene	Acute EC50 7700 μg/l Marine water	Algae - Skeletonema costatum	96 hours
-	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours
Solvent naphtha (petroleum),	Acute EC50 <10 mg/l	Daphnia	48 hours
light arom.			
	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 mg/l	Fish	96 hours

**Conclusion/Summary**: This material is harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

**Conclusion/Summary**: Not available.

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# **SECTION 12: Ecological information**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2,2-bis[4(2,3-epoksipropoksi) fenil]-propan	-	-	Not readily
xylene ethylbenzene	-		Readily Readily
Solvent naphtha (petroleum), light arom.	-	-	Not readily
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	-	-	Not readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
7,2-bis[4(2,3-epoksipropoksi) fenil]-propan	2.64 to 3.78	31	low
xylene	3.12	8.1 to 25.9	low
butan-1-ol	1	-	low
ethylbenzene	3.6	-	low
Solvent naphtha (petroleum), light arom.	-	10 to 2500	high

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

**Mobility** 

: Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

# **Product**

**Methods of disposal** 

: 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 nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

: Yes.

**Waste list** 

Waste code	Waste code definition
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances

# **Packaging**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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# SECTION 13: Disposal considerations

**Special 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**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	Paint	Paint	Paint	Paint
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.

**Additional information** 

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

to receptacles < 450 litre capacity).

The product is only regulated as an environmentally hazardous substance when **ADN** transported in tank vessels.

**IMDG** : Emergency schedules F-E, S-E

MDG: Viscous substance. Transport in accordance with 2.3.2.5 of the IMDG

Code (only applicable to receptacles < 450 litre capacity).

user

14.6 Special precautions for : 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.

14.7 Transport in bulk according to IMO instruments

: Not available.

# SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **Turkey Regulation No. 30105, KKDIK** 

Annex 14 - List of substances subject to authorization

Annex 14

None of the components are listed.

Substances of very high concern

None of the components are listed.

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# SECTION 15: Regulatory information

Annex 17 - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### **Ozone depleting substances**

Not listed.

#### Regulation on the prevention of major industrial accidents and reduction of their effects

This product is controlled under the Regulation on the prevention of major industrial accidents and reduction of their effects.

### **Danger criteria**

Category

P5c

### **EU regulations**

#### EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

#### **Annex XIV**

None of the components are listed.

### Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Industrial emissions : Listed

(integrated pollution prevention and control) -

**Air** 

Industrial emissions : Listed

(integrated pollution prevention and control) -

Water

#### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

### **Persistent Organic Pollutants**

Not listed.

### **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**

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# **SECTION 15: Regulatory information**

Not listed.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

EUH statement = SEA-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to regulation SEA: RG.-10/12/2020-31330

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

#### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Full text of classifications [SEA/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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# **SECTION 16: Other information**

### Contact information of certified author

Responsible Person: Deren Ercan Mail Address: deren.metiner@jotun.com Certificate No: LONCA KDU81/2021.26 Certificate Expiration Date: 14.10.2026

### **Notice to reader**

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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.

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