# **SAFETY DATA SHEET**



# Jotapipe RC 490 Comp B (L002)

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

## 1.1 Product identifier

Product name : Jotapipe RC 490 Comp B (L002)

Product code : 29340
Product description : Hardener.
Product type : Paste.
Other means of : Not available.

identification

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

Use in coatings - Industrial use

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

Jotun A/S P.O.Box 2021 3202 Sandefjord Norway

Tel: + 47 33 45 70 00 Fax: +47 33 45 72 42 E-mail: SDSJotun@jotun.no

#### **National contact**

JOTUN CZECH a.s. NA ROVNEM 866 400 04 TRMICE CZECH REPUBLIC

Phone: + 420 477 828 969 Fax.: + 420 477 828 962 sdsjotun@jotun.com

#### 1.4 Emergency telephone number

224 919 293 – Toxikologické informační středisko (TIS)

# SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition**: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361

STOT RE 2, H373 (lungs, respiratory tract)

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Date of issue/Date of revision : 20.01.2025 Date of previous issue : 24.07.2024 Version : 3 1/15

# **SECTION 2: Hazards identification**

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







Signal word : Danger.

**Hazard statements** : H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H361 - Suspected of damaging fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

(lungs, respiratory tract)

H412 - Harmful to aquatic life with long lasting effects.

## **Precautionary statements**

General : Not applicable.

**Prevention**: P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing, eye protection, face protection,

or hearing protection.

P273 - Avoid release to the environment.

P260 - Do not breathe vapour.

**Response** : P308 + P313 - IF exposed or concerned: Get medical advice or attention.

P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor. P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON

CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER

or doctor.

P363 - Wash contaminated clothing before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

Storage : Not applicable.

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

national and international regulations.

Hazardous ingredients : quartz, alveolar (<10 µm)

2-piperazin-1-ylethylamine

Supplemental label

elements

articles

: Not applicable.

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

Special packaging requirements

Containers to be fitted with child-resistant

: Not applicable.

fastenings

Tactile warning of danger : Not applicable.

#### 2.3 Other hazards

Date of issue/Date of revision : 20.01.2025 Date of previous issue : 24.07.2024 Version : 3 2/15

# **SECTION 2: Hazards identification**

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : 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	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
<mark>φ</mark> uartz, alveolar (<10 μm)	EC: 238-878-4 CAS: 14808-60-7	≥10 - ≤25	STOT RE 2, H373 (lungs) (inhalation)	STOT RE 2, H373: C ≥ 5%	[1] [2]
Phenol, styrenated	REACH #: 01-2119979575-18 EC: 262-975-0 CAS: 61788-44-1	≥10 - ≤16	Aquatic Chronic 2, H411	-	[1]
2-piperazin-1-ylethylamine	REACH #: 01-2119471486-30 EC: 205-411-0 CAS: 140-31-8 Index: 612-105-00-4	<10	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361 (oral) STOT RE 1, H372 (respiratory tract) (inhalation) Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg ATE [Dermal] = 300 mg/kg	[1]
salicylic acid	REACH #: 01-2119486984-17 EC: 200-712-3 CAS: 69-72-7	<3	Acute Tox. 4, H302 Eye Dam. 1, H318 Repr. 2, H361d	ATE [Oral] = 500 mg/kg	[1]
1,3-Cyclohexanedimethanamine	REACH #: 01-2119543741-41 EC: 219-941-5 CAS: 2579-20-6	≤3	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	ATE [Oral] = 880 mg/kg ATE [Dermal] = 1100 mg/kg	[1]
bis(isopropyl)naphthalene	REACH #: 01-2119565150-48 EC: 254-052-6 CAS: 38640-62-9	≤0.8	Aquatic Chronic 1, H410	M [Chronic] = 1	[1]
			See Section 16 for the full text of the H statements declared above.		

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, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### <u>Type</u>

- [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.

Date of issue/Date of revision : 20.01.2025 Date of previous issue : 24.07.2024 Version : 3 3/15

# **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give

anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

**Eye contact**: Check for and remove any contact lenses. Immediately flush eyes with running

water for at least 15 minutes, keeping eyelids open. Seek immediate medical

attention.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognised skin cleanser. Do NOT use solvents or thinners.

**Ingestion**: If swallowed, seek medical advice immediately and show the container or label.

Keep person warm and at rest. Do NOT induce vomiting.

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

# **Over-exposure signs/symptoms**

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

pain watering redness

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

reduced foetal weight increase in foetal deaths skeletal malformations

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

pain or irritation

redness

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

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

stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

See toxicological information (Section 11)

Date of issue/Date of revision : 20.01.2025 Date of previous issue : 24.07.2024 Version : 3 4/15

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

**Unsuitable extinguishing** media

: Do not use water jet.

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

**Hazards from the** substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous combustion** products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

**Special protective** equipment for fire-fighters : Appropriate breathing apparatus may be required.

# SECTION 6: Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

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

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

: 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). Preferably clean with a detergent. Avoid using solvents.

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.

# 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

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Date of issue/Date of revision : 20.01.2025 : 24.07.2024 Version :3 5/15 Date of previous issue

# **SECTION 7: Handling and storage**

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

## Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

## Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

See Technical Data Sheet / packaging for further information.

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

# Occupational exposure limits

Product/ingredient name	Exposure limit values
	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [křemen]  TWA: 0.1 mg/m³ 8 hours. Form: fibers, respirable fraction (Fr) Fr = 100 %

# 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
Phenol, styrenated	DNEL	Long term Oral	0.75 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.75 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.31 mg/m³	General population	Systemic
	DNEL	Long term Dermal	2.1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	7.4 mg/m <sup>3</sup>	Workers	Systemic

Date of issue/Date of revision : 20.01.2025 Date of previous issue : 24.07.2024 Version : 3 6/15

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

salicylic acid	DNEL	Long term Dermal	2.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1 mg/kg	General	Systemic
	DNEL	Short term Oral	bw/day 4 mg/kg	population General	Systemic
	DNEL	Long term	bw/day 4 mg/m³	population General	Systemic
	DNEL	Inhalation Long term	5 mg/m³	population Workers	Local
	DNEL	Inhalation Long term Inhalation	5 mg/m³	Workers	Systemic
1,3-Cyclohexanedimethanamine	DNEL	Long term Inhalation	9.47 μg/m³	Workers	Local
	DNEL	Long term Dermal	0.1 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	25.2 mg/ kg bw/day	Workers	Systemic
bis(isopropyl)naphthalene	DNEL	Long term Oral	0.85 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.85 mg/ kg bw/day	General population	Systemic
	DNEL	Long term	1.48 mg/m <sup>3</sup>		Systemic
	DNEL	Long term Dermal	2.38 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	8.4 mg/m <sup>3</sup>	Workers	Systemic

# **PNECs**

No PNECs available

# 8.2 Exposure controls

Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

#### **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

Date of issue/Date of revision : 20.01.2025 Date of previous issue : 24.07.2024 Version : 3 7/15

# SECTION 8: Exposure controls/personal 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

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

## **Gloves**

Wear suitable gloves tested to ISO 374-1:2016.

Recommended, gloves(breakthrough time) > 8 hours: PVC (> 0.5 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.

Personnel should wear antistatic clothing made of natural fibres or of high-

temperature-resistant synthetic fibres.

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

: 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.

**Environmental exposure** 

controls

: Do not allow to enter drains or watercourses.

# 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. Brown. Colour

: Ammoniacal. Odour : Not applicable. **Odour threshold** Melting point/freezing point : Not applicable. : 235°C (455°F) Initial boiling point and

boiling range

: Not applicable. **Flammability** Lower and upper explosion : Not applicable.

limit

: Closed cup: >93.3°C Flash point **Auto-ignition temperature** : Not applicable.

: >250°C **Decomposition temperature** 

pH : Not applicable.

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

Date of issue/Date of revision : 20.01.2025 : 24.07.2024 Version :3 8/15 Date of previous issue

# SECTION 9: Physical and chemical properties

Solubility in water cold water Very slightly soluble hot water Very slightly soluble

Partition coefficient: n-octanol/ : Not available.

water

Vapour pressure : Highest known value: 0.03 kPa (0.3 mm Hg) (at 20°C)

(1,3-Cyclohexanedimethanamine). Weighted average: 0.003 kPa (0.02 mm Hg)

(at 20°C)

**Evaporation rate** : 0.007 (2-piperazin-1-ylethylamine) compared with butyl acetate

**Density** : 1.75 to 1.85 g/cm<sup>3</sup>

: Highest known value: 4.4 (Air = 1) (2-piperazin-1-ylethylamine). Vapour density

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

**Particle characteristics** 

Median particle size : Not applicable.

#### 9.2 Other information

No additional information.

# SECTION 10: Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

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

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

: Decomposition products may include the following materials: carbon monoxide, 10.6 Hazardous decomposition products carbon dioxide, smoke, oxides of nitrogen.

# SECTION 11: Toxicological information

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Phenol, styrenated	LD50 Dermal	Rabbit	>5010 mg/kg	-
_	LD50 Oral	Rat	2500 mg/kg	-
1,3-Cyclohexanedimethanamine	LD50 Oral	Rat	880 mg/kg	-

## 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)
√otapipe RC 490 Comp B (L002)	5986.4	5076.9	N/A	N/A	N/A
Phenol, styrenated	2500	N/A	N/A	N/A	N/A
2-piperazin-1-ylethylamine	500	300	N/A	N/A	N/A
salicylic acid	500	N/A	N/A	N/A	N/A
1,3-Cyclohexanedimethanamine	880	1100	N/A	N/A	N/A

#### **Irritation/Corrosion**

Date of issue/Date of revision : 20.01.2025 : 24.07.2024 Version 9/15 Date of previous issue

# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Phenol, styrenated	Eyes - Irritant	Mammal -	-	-	-
		species unspecified			
	Eyes - Mild irritant	Rabbit	-	0.1 Mililiters	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Rabbit	_	0.5 Mililiters	-
2-piperazin-1-ylethylamine	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
salicylic acid	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-

# **Sensitisation**

Based on available data, the classification criteria are not met.

#### **Mutagenicity**

No known significant effects or critical hazards.

## **Carcinogenicity**

No known significant effects or critical hazards.

# **Reproductive toxicity**

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

**Developmental effects** : Suspected of damaging the unborn child.

Fertility effects : Suspected of damaging fertility.

## **Teratogenicity**

Suspected of damaging the unborn child.

# Specific target organ toxicity (single exposure)

Based on available data, the classification criteria are not met.

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
quartz, alveolar (<10 µm) 2-piperazin-1-ylethylamine	- 5 )	inhalation inhalation	lungs respiratory tract

## **Aspiration hazard**

Based on available data, the classification criteria are not met.

# 11.2 Information on other hazards

## 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

Date of issue/Date of revision : 20.01.2025 Date of previous issue : 24.07.2024 Version : 3 10/15

# **SECTION 12: Ecological information**

## 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
Phenol, styrenated	Acute EC50 100 mg/l	Algae	72 hours
•	Acute EC50 54 mg/l	Daphnia	48 hours
	Acute LC50 25.8 mg/l	Fish	96 hours
2-piperazin-1-ylethylamine	Acute EC50 58 mg/l	Crustaceans - Daphnia magna	48 hours
salicylic acid	Acute LC50 32 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Daphnia longispina - Neonate	21 days

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

## 12.2 Persistence and degradability

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-piperazin-1-ylethylamine	-	-	Not readily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-piperazin-1-ylethylamine	-1.48	-	low
salicylic acid	2.21 to 2.26	-	low
1,3-Cyclohexanedimethanamine	0.783	-	low
bis(isopropyl)naphthalene	6.081	1800 to 6400	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 Endocrine disrupting properties

Not available.

## 12.7 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** 

Date of issue/Date of revision : 20.01.2025 Date of previous issue : 24.07.2024 Version : 3 11/15

# **SECTION 13: Disposal considerations**

## **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 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.

#### **Hazardous waste**

: Yes

## **Disposal considerations**

Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

#### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
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.

# **Disposal considerations**

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Type of packaging	European waste catalogue (EWC)	
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances

#### **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. 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 or ID number	UN2735	UN2735	UN2735	UN2735
14.2 UN proper shipping name	Amines, liquid, corrosive, n.o.s. (2-piperazin-1-ylethylamine)	mines, liquid, corrosive, n.o.s. (2-piperazin-1-ylethylamine)	mines, liquid, corrosive, n.o.s. (2-piperazin-1-ylethylamine)	mines, liquid, corrosive, n.o.s. (2-piperazin-1-ylethylamine)
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	II	II	II	П
14.5 Environmental hazards	No.	Yes.	No.	No.

#### **Additional information**

# **SECTION 14: Transport information**

ADR/RID : Hazard identification number 80

Tunnel code (E)

**ADN** : The product is only regulated as an environmentally hazardous substance when

transported in tank vessels.

**IMDG Emergency schedules** F-A, S-B

Segregation Group: 18 - Alkalis

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

: Not applicable.

**Other EU regulations** 

VOC

: The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the

product label and/or technical data sheet for further information.

**VOC for Ready-for-Use** 

**Mixture** 

: Not available.

: Not listed

**Industrial emissions** (integrated pollution

prevention and control) -

Air

**Industrial emissions** : Not listed (integrated pollution

prevention and control) -

Water

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

Date of issue/Date of revision : 20.01.2025 : 24.07.2024 Version: 3 13/15 Date of previous issue

# **SECTION 15: Regulatory information**

# **National regulations**

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

#### **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.

# 15.2 Chemical safety

assessment

: Not applicable.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

# Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361	Calculation method
STOT RE 2, H373 (lungs, respiratory tract)	Calculation method
Aquatic Chronic 3, H412	Calculation method

## Full text of abbreviated H statements

H302	Harmful if swallowed.	
H311	Toxic in contact with skin.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H361	Suspected of damaging fertility or the unborn child.	
H361d	Suspected of damaging the unborn child.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H373	May cause damage to organs through prolonged or repeated exposure.	

Date of issue/Date of revision : 20.01.2025 Date of previous issue : 24.07.2024 Version : 3 14/15

# **SECTION 16: Other information**

H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

## Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

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Version : 3

# **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.

Date of issue/Date of revision : 20.01.2025 Date of previous issue : 24.07.2024 Version : 3 15/15