# SAFETY DATA SHEET



## Jotapipe IL 410 Comp B

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

1.1 Product identifier	
Product name	: Jotapipe IL 410 Comp B
Product code	: 29201
Product description	: Hardener.
Product type	: Liquid.
Other means of identification	: Not available.

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

Use in coatings - Professional use

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

Jotun A/S	Jotun Paints (Europe) Ltd.
P.O.Box 2021	Stather Road
3202 Sandefjord	Flixborough, Scunthorpe
Norway	North Lincolnshire
Tel: + 47 33 45 70 00	DN15 8RR
Fax: +47 33 45 72 42	England
E-mail: SDSJotun@jotun.no	, and the second s
0.	Tel: +44 17 24 40 00 00
	Fax: +44 17 24 40 01 00
4.4 Emergency telephone number	

#### 1.4 Emergency telephone number

National advisory body/Po	ison Centre
Telephone number	: Contact NHS Direct; phone 0845 4647 or 111. Open 24/7.

#### <u>Supplier</u>

- **Telephone number**
- : +47 33 45 70 00 Jotun Norway (head office)

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition

#### Classification according to UK CLP/GHS

Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

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

: Mixture

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

#### 2.2 Label elements

## **SECTION 2: Hazards identification**

Hazard pictograms	
Signal word	: Danger.
Hazard statements	<ul> <li>H302 - Harmful if swallowed.</li> <li>H314 - Causes severe skin burns and eye damage.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
General	: Not applicable.
Prevention	<ul> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapour.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> </ul>
Response	<ul> <li>P391 - Collect spillage.</li> <li>P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.</li> <li>P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON</li> <li>CENTER or doctor. Rinse mouth. Do NOT induce vomiting.</li> <li>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.</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>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.</li> </ul>
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	ients
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 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**

N 41

3.2 Mixtures : M Product/ingredient name	ixture Identifiers	%	Classification	Туре
Carbomonocyclic alkylated	CAS: 1173092-74-4	≥50 - ≤75	Acute Tox. 4, H302	[1]
mixtures of poly-aza-alkanes, hydrogenated	043. 1173092-74-4	230 - 273	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2,	[']
			H411	
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	REACH #: 01-2119557899-12 CAS: 9046-10-0	≤10	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	[1]
Formaldehyde, oligomeric reaction products with phenol	REACH #: 01-2120735197-51 EC: 500-005-2 CAS: 9003-35-4	≤10	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
2,6-ditert-butyl-p-cresol	REACH #: 01-2119565113-46 EC: 204-881-4 CAS: 128-37-0	≤10	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
3-aminopropyldiethylamine	REACH #: 01-2119965402-39 EC: 203-236-4 CAS: 104-78-9 Index: 612-062-00-1	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	[1]
2,4,6-tris(dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	≤2.9	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318	[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.

Туре

8.8.1......

Substance classified with a health or environmental hazard

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

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

4.1 Description of first aid	neasures
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. In case of inhalation of decomposition products in a fire,
Date of issue/Date of revision	: 05.04.2024 Date of previous issue : 21.04.2023 Version : 1.03 3/15

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

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

Over-exposure signs/s	<u>ymptoms</u>
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 imi	nediate 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.

: No specific treatment.

See toxicological information (Section 11)

**Specific treatments** 

## **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 fr	om the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. 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.

Date of issue/Date of revision: 05.04.2024Date of previous issue: 21.04.2023Version: 1.034/15

### **SECTION 5: Firefighting measures**

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Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	<ul> <li>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.</li> </ul>
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	ote	ctive 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. 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. Collect spillage.

#### 6.3 Methods and material for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. 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. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
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

## **SECTION 7: Handling and storage**

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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 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. 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.

#### Seveso Directive - Reporting thresholds

#### **Danger criteria**

	Notification and MAPP threshold	Safety report threshold
E1	100 tonne	200 tonne

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

#### 8.1 Control parameters

**Occupational exposure limits** 

No exposure limit value known.

#### **Biological exposure indices**

No exposure indices known.

# procedures

**Recommended monitoring** : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Туре	Exposure	Value	Population	Effects
DNEL	Long term Dermal	2.5 mg/kg bw/day	Workers	Systemic
DNEL	Long term Dermal	0.623 mg/ cm²	Workers	Local
DNEL	Long term Dermal	1.25 mg/ kg bw/day	General population [Consumers]	Systemic
DNEL	Long term Oral	0.04 mg/ kg bw/day	General population [Consumers]	Systemic
	- DNEL DNEL DNEL	- DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal	-     DNEL     Long term Dermal     2.5 mg/kg bw/day       DNEL     Long term Dermal     0.623 mg/ cm <sup>2</sup> DNEL     Long term Dermal     1.25 mg/ kg bw/day       DNEL     Long term Dermal     0.04 mg/	DNEL     Long term Dermal     2.5 mg/kg bw/day     Workers       DNEL     Long term Dermal     0.623 mg/ cm <sup>2</sup> Workers       DNEL     Long term Dermal     1.25 mg/ kg bw/day     General population [Consumers]       DNEL     Long term Oral     0.04 mg/ kg bw/day     General population

## SECTION 8: Exposure controls/personal protection

5E	ECTION 8: Exposure cont	rols/p	ersonal prote	ction		
I		DNEL	Long term Dermal	0.311 mg/	General	Local
			0	cm²	population	
					[Consumers]	
		DNEL	Long term Dermal	2.5 mg/kg	Workers	Systemic
				bw/day		
		DNEL	Long term	5.29 mg/m <sup>3</sup>	Workers	Systemic
			Inhalation			
	Formaldehyde, oligomeric reaction	DNEL	Long term Oral	10 mg/kg	General	Systemic
	products with phenol			bw/day	population	
		DNEL	Long term Dermal	10 mg/kg	General	Systemic
				bw/day	population	
		DNEL	Long term	17.4 mg/m <sup>3</sup>		Systemic
			Inhalation		population	
		DNEL	Long term Dermal	28 mg/kg	Workers	Systemic
				bw/day		
		DNEL	Long term	98.7 mg/m³	Workers	Systemic
			Inhalation		- ·	
	2,6-ditert-butyl-p-cresol	DNEL	Long term Oral	0.25 mg/	General	Systemic
				kg bw/day	population	
		DNEL	Long term Dermal	0.25 mg/	General	Systemic
				kg bw/day	population	
		DNEL	Long term	0.435 mg/	General	Systemic
			Inhalation	m <sup>3</sup>	population	
		DNEL	Long term Dermal	0.5 mg/kg	Workers	Systemic
				bw/day	NA7 1	
		DNEL	Long term	1.76 mg/m³	Workers	Systemic
			Inhalation	0.5	0	0
	3-aminopropyldiethylamine	DNEL	Long term Oral	0.5 mg/kg	General	Systemic
			1	bw/day	population	0
		DNEL	Long term	1.8 mg/m³	General	Systemic
			Inhalation		population	Quatancia
		DNEL	Long term Dermal	3.5 mg/kg	Workers	Systemic
		DNEL	Long term	bw/day 24.7 mg/m³	Workoro	Svotomio
		DNEL	Inhalation	24.7 mg/m	VVOIKEIS	Systemic
	2,4,6-tris(dimethylaminomethyl)	DMEL	Long term Dermal	0.2 mg/kg	Workers	Systemic
	phenol		Long term Derma	bw/day	VVOIKEIS	Systemic
	prienoi	DNEL	Long term	0.31 mg/m <sup>3</sup>	Workore	Systemic
		DINEL	Inhalation	0.51 mg/m	VVUINCIS	Cysternic
		DNEL	Long term Oral	0.075 mg/	General	Systemic
			Long term Oral	kg bw/day	population	Cysternic
		DNEL	Short term Dermal	0.075 mg/	General	Systemic
				kg bw/day	population	Cystonno
		DNEL	Long term Dermal	0.075 mg/	General	Systemic
				kg bw/day	population	
1		DNEL	Short term	0.13 mg/m <sup>3</sup>		Systemic
			Inhalation	5.15 mg/m	population	
		DNEL	Long term	0.13 mg/m <sup>3</sup>	General	Systemic
		2,,622	Inhalation	5.15 mg/m	population	- , , , , , , , , , , , , , , , , , , ,
		DNEL	Long term Dermal	0.15 mg/	Workers	Systemic
				kg bw/day		
		DNEL	Long term	0.53 mg/m <sup>3</sup>	Workers	Systemic
			Inhalation			,
		DNEL	Short term Dermal	0.6 mg/kg	Workers	Systemic
				bw/day		,
1		DNEL	Short term	2.1 mg/m <sup>3</sup>	Workers	Systemic
			Inhalation	3		
-	NECs		<u> </u>			<u> </u>

**PNECs** 

Product/ingredient name	<b>Compartment Detail</b>	Value	Method Detail	
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	Fresh water	0.015 mg/l	-	
· · · · · · · · · · · · · · · · · · ·	Marine	0.0142 mg/l	-	
	Sewage Treatment	7.5 mg/l	-	
	Plant	-		
	Fresh water sediment	0.132 mg/kg dwt	-	
	Marine water sediment	0.125 mg/kg dwt	-	
	Soil	0.0176 mg/kg dwt	-	
	Secondary Poisoning	6.93 mg/kg	-	
2,4,6-tris(dimethylaminomethyl)phenol	Fresh water	0.084 mg/l	-	
	Marine	0.0084 mg/l	-	
	Sewage Treatment	0.2 mg/l	-	
	Plant			

#### **8.2 Exposure controls**

Appropriate engineering	: If user operations generate dust, fumes, gas, vapour or mist, use process
controls	enclosures, local exhaust ventilation or other engineering controls to keep worker
	exposure to airborne contaminants below any recommended or statutory limits.

#### 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.

#### Gloves

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

Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber (> 0.75 mm), neoprene (> 0.35 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.							
	being per	protective equipment for t formed and the risks invo andling this product.						
Date of issue/Date of revision	: 05.04.202	24 Date of previous issue	: 21.04.2023	Version	:1.03	8/15		

## **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	: 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.

<u>Appearance</u>		
Physical state	1	Liquid.
Colour	:	Clear.
Odour	:	Characteristic.
Odour threshold	:	Not applicable.
Melting point/freezing point	:	Not applicable.
Initial boiling point and boiling range		Lowest known value: 170°C (338°F) (3-aminopropyldiethylamine). Weighted average: 208.88°C (408°F)
Flammability	:	Not applicable.
Upper/lower flammability or explosive limits	:	Not applicable.
Flash point	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not available.
рН	:	Not applicable.
Viscosity	:	Not available.
Solubility(ies)	:	
Media		Result
cold water hot water		Not soluble Not soluble
Partition coefficient: n-octanol/ water	:	Not available.
Vapour pressure		Highest known value: 0.2 kPa (1.5 mm Hg) (at 20°C) (3-aminopropyldiethylamine).  Weighted average: 0.12 kPa (0.9 mm Hg) (at 20°C)
Evaporation rate	:	Not available.
Density	:	1.05 g/cm³
Vapour density	:	Highest known value: 4.48 (Air = 1) (3-aminopropyldiethylamine).
Explosive properties	:	Not available.
Oxidising properties	1	Not available.
Particle characteristics		
Median particle size	:	Not applicable.

#### 9.1 Information on basic physical and chemical properties

#### 9.2 Other information

No additional information.

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
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.
10.6 Hazardous decomposition products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	LD50 Dermal	Rabbit	360 mg/kg	-
	LD50 Oral	Rat	242 mg/kg	-
3-aminopropyldiethylamine	LD50 Oral	Rat	550 mg/kg	-
2,4,6-tris (dimethylaminomethyl) phenol	LD50 Oral	Rat	1673 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)	
Jotapipe IL 410 Comp B	589.6	24669.2	N/A	N/A	N/A	
Carbomonocyclic alkylated mixtures of poly-aza- alkanes, hydrogenated	500	N/A	N/A	N/A	N/A	
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	500	N/A	N/A	N/A	N/A	
3-aminopropyldiethylamine 2,4,6-tris(dimethylaminomethyl)phenol	550 1673	1100 N/A	N/A N/A	N/A N/A	N/A N/A	

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	<b>Observation</b>
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
2,6-ditert-butyl-p-cresol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Mild irritant	Human	-	48 hours 500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	48 hours 500 milligrams	-
2,4,6-tris (dimethylaminomethyl)phenol	Eyes - Severe irritant	Rabbit	-	24 hours 50 µg	-
	Skin - Severe irritant	Rat	-	0.25 ml	-

#### **Sensitisation**

## **SECTION 11: Toxicological information**

SECTION TT. Toxicological information					
Product/ingredient name	Route of exposure	Species	Result		
Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated	skin	Mammal - species unspecified	Sensitising		

#### **Mutagenicity**

No known significant effects or critical hazards.

#### **Carcinogenicity**

No known significant effects or critical hazards.

#### Reproductive toxicity

**Developmental effects** 

: No known significant effects or critical hazards.

- **Fertility effects**
- : No known significant effects or critical hazards.

#### **Teratogenicity**

No known significant effects or critical hazards.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

#### Potential acute health effects

Fotential acute health effects		
Eye contact	1	Causes serious eye damage.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes severe burns. May cause an allergic skin reaction.
Ingestion	:	Harmful if swallowed.
Symptoms related to the phy	sic	cal, chemical and toxicological characteristics
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
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Other information	:	None identified.

## **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.

Conclusion/Summary	: This material is very toxic to aquatic life long lasting effects.	. This material is toxic to aquatic life with	
12.2 Persistence and degra	dability		
<b>Conclusion/Summary</b>	: Not available.		
Date of issue/Date of revision	: 05.04.2024 Date of previous issue	: 21.04.2023 Version : 1.03	11/15

## **SECTION 12: Ecological information**

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)- 2,6-ditert-butyl-p-cresol 2,4,6-tris (dimethylaminomethyl) phenol	1.34 5.1 0.219	- 330 to 1800 -	low high low	

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

# ProductMethods of disposal: The generation of waste should be avoided or minimised wherever possible.<br/>Disposal of this product, solutions and any by-products should at all times comply<br/>with the requirements of environmental protection and waste disposal legislation and<br/>any regional local authority requirements. Dispose of surplus and non-recyclable<br/>products via a licensed waste disposal contractor. Waste should not be disposed of<br/>untreated to the sewer unless fully compliant with the requirements of all authorities<br/>with jurisdiction.Hazardous waste: Yes.

Wasto cataloguo

 Maste Catalogue	
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.

	,	<b>.</b>
Type of packaging		Waste catalogue
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances
Special precautions	taken when Empty conta	al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Avoid dispersal of al and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA	
14.1 UN number	UN2735	UN2735	UN2735	UN2735	
14.2 UN proper shipping name	Amines, liquid, corrosive, n.o.s. (Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated)	Amines, liquid, corrosive, n.o.s. (Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated)	Amines, liquid, corrosive, n.o.s. (Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated). Marine pollutant (Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated)	Amines, liquid, corrosive, n.o.s. (Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated)	
14.3 Transport hazard class(es)	8	8	8	8	
14.4 Packing group		111	III	III	
I4.5 Environmental nazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.	

ADR/RID	:	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Hazard identification number</u> 80 <u>Tunnel code</u> (E)
ADN	;	The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ .
IMDG	:	The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg. <b>Emergency schedules</b> F-A, S-B
		Segregation Group: 18 - Alkalis
ΙΑΤΑ	:	The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special precautions for user	:	<b>Transport within user's premises:</b> 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

#### UK (GB)/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.

## **SECTION 15: Regulatory information**

#### **Ozone depleting substances**

Not listed.

#### **Prior Informed Consent (PIC)**

Not listed.

#### **Persistent Organic Pollutants** Not listed.

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

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

Category
E1
EU regulations
Industrial emissions : Not listed (integrated pollution prevention and control) - Air
Industrial emissions : Not listed (integrated pollution prevention and control) - Water
nternational 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.
JNECE Aarhus Protocol on POPs and Heavy Metals Not listed.
<b>5.2 Chemical safety</b> <b>sessment :</b> This product contains substances for which Chemical Safety Assessments are still required.
ECTION 16: Other information

#### S ormation

Indicates information	that has changed from previously issued version.
Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement</li> </ul>

Date of issue/Date of revision : 05.04.2024	Date of previous issue	: 21.04.2023	Version : 1.03	14/15
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Jotapipe IL 410 Comp B

## **SECTION 16: Other information**

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

Classification	Justification
Acute Tox. 4, H302	Calculation method
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 2, H411	Calculation method

#### Full text of abbreviated H statements

H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
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.	
H319	Causes serious eye irritation.	
H400	Very toxic to aquatic life.	
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

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
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
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Sens. 1	SKIN SENSITISATION - Category 1
Date of printing	: 05.04.2024
Date of issue/ Date of	: 05.04.2024

revision	
Date of previous issue	: 21.04.2023
Version	: 1.03

#### Notice to reader

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