# SAFETY DATA SHEET



## Jotapipe DL 3002 21S

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

1.1 Product identifier	
Product name	: Jotapipe DL 3002 21S
Product code	: 16427
Product type	: Powder coating.
Other means of identification	: Not available.

### 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

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### 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

Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F Aquatic Chronic 1, H410

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	:	
Signal word	:	Danger.
Hazard statements	:	H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H360F - May damage fertility. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements		
General	:	Not applicable.
Prevention	:	<ul> <li>P201 - Obtain special instructions before use.</li> <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 dust.</li> </ul>
Response	:	<ul> <li>P391 - Collect spillage.</li> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P362 + P364 - Take off contaminated clothing and wash it 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.</li> <li>Immediately call a POISON CENTER or doctor.</li> </ul>
Storage	1	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	4,4'-isopropylidenediphenol phenol, polymer with formaldehyde, glycidyl ether
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	:	Restricted to professional users.
Special packaging requirem	ner	<u>its</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.

### 2.3 Other hazards

Date of revision

## **SECTION 2: Hazards identification**

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	: None known.

Other hazards which do : None not result in classification

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

3.2 Mixtures	: Mixture			
Product/ingredient name	Identifiers	%	SEA: RG10/12/2020-31330	Туре
barium sulfate	EC: 231-784-4 CAS: 7727-43-7	≤10	Not classified.	[2]
4,4'-isopropylidenediphenol	EC: 201-245-8 CAS: 80-05-7	≤5	Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=10)	[1] [2]
phenol, polymer with formaldehyde, glycidyl ether	CAS: 28064-14-4	≤5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
titanium dioxide	EC: 236-675-5 CAS: 13463-67-7	≤3	Not classified.	[2]
calcium oxide	EC: 215-138-9 CAS: 1305-78-8	≤3	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	[1] [2]
1h-imidazole, 2-methyl-	CAS: 693-98-1	<0.3	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Carc. 2, H351 Repr. 1B, H360D	[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 or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[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	easures	
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 minute 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 ma or self-contained breathing apparatus. If not breathing, if breathing is irregular or it respiratory arrest occurs, provide artificial respiration or oxygen by trained personn 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.	:

# SECTION 4: First aid measures

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

Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: 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	: 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

4.5 indication of any initiation and special freatment freeded		
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 an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being

Substance of mixture	discharged to any waterway, sewer or drain.
	Fine dust clouds may form explosive mixtures with air.
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	

· · · · · · · <b>·</b>		
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.
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, pro	te	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. 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	со	ntainment and cleaning up
Small spill	:	Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal

contractor.

# **SECTION 6: Accidental release measures**

6.4 Reference to other	: See Section 1 for emergency contact information.
sections	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

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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not 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

### 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.

See Technical Data Sheet / packaging for further information.

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

information on hygiene measures.

### Danger criteria

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

### 7.3 Specific end use(s)

Recommendations Industrial sector specific solutions : Not available.

specific : Not available.

# SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Dust Limit : 10 mg/m<sup>3</sup> (TWA of total inhalable dust) and 4 mg/m<sup>3</sup> (TWA of respirable) Occupational exposure limits

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

Product/ingredient name	Exposure limit values
▶arium sulfate	ACGIH TLV (United States, 7/2023). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction
4,4'-isopropylidenediphenol	<b>TR ISGGM OEL (Turkey, 12/2013).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Respirable dust
titanium dioxide	EU OEL (Europe).
calcium oxide	TWA: 5 mg/m <sup>3</sup> 8 hours. EU OEL (Europe, 1/2022). Notes:
	STEL: 4 mg/m <sup>3</sup> 15 minutes. Form: Respirable fraction TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction

### **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	Туре	Exposure	Value	Population	Effects
barium sulfate	DNEL	Long term Inhalation	10 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term	10 mg/m³	General	Systemic
	DNEL	Inhalation Long term	10 mg/m <sup>3</sup>	population Workers	Systemic
		Inhalation	J J		-
	DNEL	Long term Oral	13000 mg/ kg bw/day	General population	Systemic
4,4'-isopropylidenediphenol	DNEL	Short term Dermal	24 µg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	24 µg/kg bw/day	General	Systemic
	DNEL	Short term Oral	53 µg/kg	General	Systemic
	DNEL	Long term Oral	bw/day 53 µg/kg	population General	Systemic
	DNEL	Short term Dermal	bw/day 66 µg/kg	population Workers	Systemic
	DNEL	Long term Dermal	bw/day 66 µg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	1 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	1 mg/m³	General	Local
	DNEL	Short term	1 mg/m³	General	Systemic
	DNEL	Inhalation Long term Inhalation	1 mg/m³	population General population	Systemic
	DNEL	Short term Inhalation	2 mg/m³	Workers	Local
	DNEL	Long term Inhalation	2 mg/m³	Workers	Local
	DNEL	Short term Inhalation	2 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	2 mg/m³	Workers	Systemic

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

titanium dioxide	DNEL	Long term	28 µg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	170 µg/m³	Workers	Local
		Inhalation			
calcium oxide	DNEL	Long term	1 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	1 mg/m³	Workers	Local
		Inhalation			
	DNEL	Short term	4 mg/m³	General	Local
		Inhalation		population	
	DNEL	Short term Inhalation	4 mg/m <sup>3</sup>	Workers	Local
1h-imidazole, 2-methyl-	DNEL	Long term Oral	0.02 mg/	General	Systemic
		-	kg bw/day	population	-
	DNEL	Long term Dermal	0.04 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	0.3 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			

### **PNECs**

No PNECs available

8.2 Exposure controls	
Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection meas	<u>ires</u>
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	<ul> <li>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.</li> <li>Wear suitable gloves tested to ISO 374-1:2016. Recommended, gloves(breakthrough time) &gt; 8 hours: neoprene (&gt; 0.35 mm), PVC (&gt; 0.5 mm), nitrile rubber (&gt; 0.75 mm), butyl rubber (&gt; 0.4 mm)</li> <li>For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.</li> </ul>

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

	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.
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.

## **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

<u>Appearance</u>		
Physical state	1	Solid. Powder.
Colour	1	Various.
Odour	1	Odourless.
Odour threshold	1	Not applicable.
Melting point (dust)	1	85 - 115 °C
Initial boiling point and boiling range	:	Not applicable.
Flammability (solid, gas)	:	Fine dust clouds may form explosive mixtures with air.
Lower explosion limit (dust)	:	30 g/m³
Minimum ignition energy (mJ)	:	10 - 30 (EN 13821)
Flash point	:	
		Not applicable.
Auto-ignition temperature	:	> 400°C
Decomposition temperature	:	>250°C
рН	1	Not applicable.
Viscosity	:	Not applicable.
Solubility(ies)	1	
Media		Result
cold water hot water		Not soluble Not soluble
Partition coefficient: n-octanol/ water	:	Not applicable.
Vapour pressure	:	Not applicable.
		Not applicable.
Density	1	1.5 to 1.6 g/cm <sup>3</sup>
Vapour density	1	Not applicable.
Explosive properties	1.1	Not available

**Particle characteristics** 

# **SECTION 9: Physical and chemical properties**

Median particle size

: Not available.

### 9.2 Other information

No additional information.

# SECTION 10: Stability and reactivity

10.1 Reactivity	dust clouds may form explosive mixtures with	air.
10.2 Chemical stability	product is stable.	
10.3 Possibility of hazardous reactions	er normal conditions of storage and use, hazard	lous reactions will not occur.
10.4 Conditions to avoid	d the creation of dust when handling and avoid rk or flame).	all possible sources of ignition
	precautionary measures against electrostatic	discharges.
	void fire or explosion, dissipate static electricity ling containers and equipment before transferri	· · · · ·
	ent dust accumulation.	
10.5 Incompatible materials	pecific data.	
10.6 Hazardous decomposition products	er normal conditions of storage and use, hazard Id not be produced.	lous decomposition products

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1h-imidazole, 2-methyl-	LD50 Oral	Mouse	1400 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)	
1h-imidazole, 2-methyl-	500	N/A	N/A	N/A	N/A

### Irritation/Corrosion

Result	Species	Score	Exposure	Observation
Eyes - Irritant	Mammal - species unspecified	-	-	-
Eyes - Severe irritant	Rabbit	-	24 hours 250 Micrograms	-
Skin - Mild irritant	Rabbit	-	250 milligrams	-
Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Eyes - Mild irritant	Mammal - species unspecified	-	-	-
Skin - Mild irritant	Mammal - species unspecified	-	-	-
Skin - Mild irritant	Human	-	72 hours	-
Eyes - Irritant	Mammal - species unspecified	-	-	-
	Eyes - Irritant Eyes - Severe irritant Skin - Mild irritant Skin - Mild irritant Eyes - Mild irritant Skin - Mild irritant Skin - Mild irritant	Eyes - IrritantMammal - species unspecified RabbitEyes - Severe irritantRabbitSkin - Mild irritantRabbitSkin - Mild irritantRabbitEyes - Mild irritantMammal - species unspecified Mammal - species unspecified Mammal - species unspecified Human Eyes - Irritant	Eyes - IrritantMammal - species unspecified Rabbit-Eyes - Severe irritantRabbit-Skin - Mild irritantRabbit-Skin - Mild irritantRabbit-Eyes - Mild irritantMammal - species unspecified Mammal - species unspecified Human Eyes - Irritant-Skin - Mild irritantMammal - species unspecified 	Eyes - IrritantMammal - species unspecified RabbitEyes - Severe irritantRabbit-24 hours 250 MicrogramsSkin - Mild irritantRabbit-250 milligramsSkin - Mild irritantRabbit-24 hours 500 milligramsEyes - Mild irritantMammal - species unspecifiedSkin - Mild irritantMammal - species unspecifiedSkin - Mild irritantMammal - species unspecifiedSkin - Mild irritantMammal - species unspecifiedSkin - Mild irritantMammal - species unspecifiedSkin - Mild irritantMammal - HumanSyse - IrritantMammal - species

## **SECTION 11: Toxicological information**

	Skin - Mild irritant	Mammal - species unspecified	-	-	-

### **Conclusion/Summary** : Not available.

### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
4,4'-isopropylidenediphenol	skin	Mammal - species	Sensitising
phenol, polymer with formaldehyde, glycidyl ether	skin	unspecified Mammal - species unspecified	Sensitising
Conclusion/Summary	: Not available.		
<u>Mutagenicity</u>			
<b>Conclusion/Summary</b>	: Not available.		
<b>Carcinogenicity</b>			
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
4,4'-isopropylidenediphenol	Category 3	-	Respiratory tract irritation
calcium oxide	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Not available.

## Information on likely routes : Not available.

of exposure Potential acute healt

hoalth	effects	

Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

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

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

# **SECTION 11: Toxicological information**

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

Delayed and immediate effect	ts	as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	1	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
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	1	May damage fertility.
Other information	:	Not available.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
4,4'-isopropylidenediphenol	Acute EC50 1.506 mg/l	Algae - Prorocentrum minimum - Exponential growth phase	72 hours
	Acute EC50 1000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 7.75 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.34 mg/l Marine water	Crustaceans - Americamysis bahia - Larvae	48 hours
	Acute LC50 3.5 mg/l Marine water	Fish - Rivulus marmoratus - Embryo	96 hours
	Chronic NOEC 2 mg/l Fresh water	Algae - Chlorolobion braunii - Exponential growth phase	4 days
	Chronic NOEC 0.05 mg/l Fresh water	Crustaceans - Asellus aquaticus - Juvenile (Fledgling, Hatchling, Weanling)	21 days
	Chronic NOEC 30 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.2 µg/l Fresh water	Fish - Carassius auratus - Adult	90 days
phenol, polymer with formaldehyde, glycidyl ether	Acute EC50 3.3 mg/l	Daphnia	48 hours
,,	Acute LC50 7.5 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
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# **SECTION 12: Ecological information**

	Acute LC50 6.5 mg/l Fresh water	dubia - Neonate Daphnia - Daphnia pulex - Neonate	48 hours		
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours		
1h-imidazole, 2-methyl-	Acute LC50 286000 to 307000 μg/l Fresh water	Fish - Pimephales promelas	96 hours		
	. This we stand a transformation to a superior		•		

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

### 12.2 Persistence and degradability

Conclusion/Summary	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
phenol, polymer with formaldehyde, glycidyl ether	-	-	Not readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
4,4'-isopropylidenediphenol	3.4	20 to 67	low
calcium oxide	-	2.34	low
1h-imidazole, 2-methyl-	0.24	-	low

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
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**

Waste code	Waste code definition
Waste list	
Hazardous waste	: Yes.
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.

1*	Waste paint and varnish containing organic solvents or other dangerous substances

Packaging

08 01 11

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.

## **SECTION 13: Disposal considerations**

### **Special precautions**

This material and its container must be disposed of in a safe way. Care should be ŝ, 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	UN3077	UN3077	UN3077	UN3077
14.2 UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (bisphenol a)	Environmentally hazardous substance, solid, n.o.s. (bisphenol a)	Environmentally hazardous substance, solid, n.o.s. (bisphenol a). Marine pollutant (bisphenol a, phenol, polymer with formaldehyde, glycidyl ether)	Environmentally hazardous substance, solid, n.o.s. (bisphenol a)
14.3 Transport hazard class(es)	9	9		9
14.4 Packing group		111	Ш	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.
Additional informa	tion			1
ADR/RID ADN	<ul> <li>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.</li> <li><u>Hazard identification number</u> 90 <u>Tunnel code</u> (-)</li> <li>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.</li> </ul>			
IMDG	<ul> <li>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.</li> <li>Emergency schedules F-A, S-F</li> </ul>			
ΙΑΤΑ	<ul> <li>This product is not regulated as a dangerous good when transported in sizes of ≤5</li> <li>L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1,</li> <li>5.0.2.6.1.1 and 5.0.2.8.</li> </ul>			
Marking	Iarking: The environmental hazardous / marine pollutant mark is only applicable for packages containing more than 5 litres for liquids and 5 kg for solids.			
14.6 Special precau user	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 the event of an accident or spillage.			
14.7 Transport in b according to IMO instruments	bulk : 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

### <u>Annex 14</u>

None of the components are listed.

### Substances of very high concern

None of the components are listed.

Annex 17 - Restrictions : Restricted to professional users.

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	
E1	

### **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

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Toxic to reproduction	Bisphenol-A	Candidate	-	-
	2-methylimidazole	Candidate	D(2020) 4578-DC	25.06.2020
Endocrine disrupting properties for human health	4,4'-isopropylidenediphenol	Recommended	ED/01/2018	01.10.2019
Endocrine disrupting properties for environment	4,4'-isopropylidenediphenol	Recommended	ED/01/2018	01.10.2019

Annex XVII - Restrictions : Restricted to professional users. on the manufacture,

placing on the market and use of certain dangerous substances,

# mixtures and articles

## 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

# **SECTION 15: Regulatory information**

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

: 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
Due and the transfer doubt	the electricities according to regulation SEA, DC 40/42

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

Classification	Justification
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 1B, H360F	Calculation method
Aquatic Chronic 1, H410	Calculation method

### Full text of abbreviated H statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H360F	May damage fertility.
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.

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

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		
Carc. 2	CARCINOGENICITY - Category 2		
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1		
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B		
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C		
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2		
Skin Sens. 1	SKIN SENSITISATION - Category 1		
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3		
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## **SECTION 16: Other information**

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### 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.