

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

1.1 Product identifier	
Product name	: Jotashield Topcoat Silk(TR)
Product code	: 40803
Product description	: Paint.
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 - Consumer use: Apply this product only as specified on the label. Use in coatings - Professional use

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

Jotun Boya Sanayi ve Ticaret A.Ş. Balabandere Caddesi, Hilpark Suites Sitesi No: 10, İstinye 34460 Sarıyer, İstanbul

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

Başvurulacak Kişi: Deren Ercan deren.metiner@jotun.com **Original preparation date** : 29.11.2023

## 1.4 Emergency telephone number

### **National Poison Information Center**

+90 224 442 82 93 Uludağ Üniversitesi Zehir Danısma Merkezi (www.uludag.edu.tr/uludag/zehir.html) a. ACIL DURUM TELEFONU: Zehirlenme durumlarında gerektiğinde ulusal zehir merkezinin (UZEM) 114 nolu telefonunu arayınız. b. ACIL ILK YARDIM MERKEZI: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

Skin Sens. 1, H317

Aquatic Chronic 3, H412

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



# SECTION 2: Hazards identification

Signal word	1	Warning.		
Hazard statements	:	H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.		
Precautionary statements				
General	1	P102 - Keep out of reach of children.		
Prevention	-	P280 - Wear protective gloves. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.		
Response	:	P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.		
Storage	1	Not applicable.		
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.		
Hazardous ingredients	:	1,2-benzisothiazol-3(2H)-one 2-octyl-2H-isothiazol-3-one 2-methyl-2H-isothiazol-3-one C(M)IT/MIT (3:1)		
Supplemental label elements	:	Not applicable.		
Annex 17 - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.		
Special packaging requirem	nen	<u>ts</u>		
Containers to be fitted with child-resistant fastenings	:	Not applicable.		
Tactile warning of danger	:	Not applicable.		
2.3 Other hazards				
Product meets the criteria for PBT or vPvB	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.		
Other hazards which do not result in classification	:	None known.		

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

3.2 Mixtures	: Mixture			
Product/ingredient name	Identifiers	%	SEA: RG10/12/2020-31330	Туре
Alcohols, C16-18 and C18-unsatd., ethoxylated	EC: 500-236-9 CAS: 68920-66-1	≤0.11	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	[1]
pyrithione zinc	EC: 236-671-3 CAS: 13463-41-7	≤0.024	Acute Tox. 3, H301 Acute Tox. 2, H330 Eye Dam. 1, H318 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=10)	[1] [2]
1,2-benzisothiazol-3(2H)-one	EC: 220-120-9 CAS: 2634-33-5	<0.05	Acute Tox. 4, H302 Skin Irrit. 2, H315	[1]
Date of revision	: 29.11.2023	riginal prepara	tion date : 29.11.2023 Version :	1 2/1

Jotashield Topcoat Silk(TR)				
SECTION 3: Compos	sition/informa	tion on i	ngredients	
			Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1)	
2-octyl-2H-isothiazol-3-one	EC: 247-761-7 CAS: 26530-20-1 Index: 613-112-00-5	≤0.0026	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071	[1]
2-methyl-2H-isothiazol-3-one	EC: 220-239-6 CAS: 2682-20-4	<0.01	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	[1]
C(M)IT/MIT (3:1)	CAS: 55965-84-9	<0.001	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071 See Section 16 for the full text of the H	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

<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.

# **SECTION 4: First aid measures**

4.1 Description of first aid m	easures
Eye contact	: 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. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

statements declared above.

SECTION 4: First aid measures			
Ingestion	: 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. Get medical attention if adverse health effects persist or are severe. 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.		

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

Potential acute health effects	
Eye contact :	No known significant effects or critical hazards.
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/sympton	ns
Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	Adverse symptoms may include the following: irritation redness
Ingestion :	No specific data.

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

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
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	rom 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 harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

# **SECTION 5: Firefighting measures**

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# **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	tective 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

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

## 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. 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

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# **SECTION 7: Handling and storage**

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. 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.

### 7.3 Specific end use(s)

Recommendations: Not available.Industrial sector specific: Not available.solutions

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

### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
pyrithione zinc	<b>EU OEL (Europe, 2000).</b> TWA: 0.35 mg/m³ 8 hours.

#### **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
Alcohols, C16-18 and C18-unsatd., ethoxylated	DNEL	Long term Oral	25 mg/kg bw/day	General population	Systemic
ethoxylated	DNEL	Long term	87 mg/m <sup>3</sup>	General	Systemic
	DNEL	Inhalation Long term Inhalation	294 mg/m <sup>3</sup>	population Workers	Systemic
	DNEL	Long term Dermal	1250 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2080 mg/ kg bw/day	Workers	Systemic
pyrithione zinc	DNEL	Long term Dermal	0.01 mg/ kg bw/day	Workers	Systemic
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.966 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.2 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term	6.81 mg/m³		Systemic
2-methyl-2H-isothiazol-3-one	DNEL	Long term	0.021 mg/ m³	General population	Local
	DNEL	Long term	0.021 mg/ m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	0.027 mg/	General	Systemic

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

SEC	bechow of exposure controls/personal protection							
		DNEL	Short term Inhalation	kg bw/day 0.043 mg/ m³	population General population	Local		
		DNEL	Short term Inhalation	0.043 mg/ m³	Workers	Local		
		DNEL	Short term Oral	0.053 mg/ kg bw/day	General population	Systemic		
C(	M)IT/MIT (3:1)	DNEL	Long term Inhalation	0.02 mg/m <sup>3</sup>	population	Local		
		DNEL	Long term Inhalation	0.02 mg/m <sup>3</sup>	Workers	Local		
		DNEL	Short term Inhalation	0.04 mg/m <sup>3</sup>	General population	Local		
	DNEL Short term 0.04 mg/m <sup>3</sup> Workers Local							
		DNEL	Long term Oral	0.09 mg/ kg bw/day	General population	Systemic		
		DNEL	Short term Oral	0.11 mg/ kg bw/day	General population	Systemic		

#### **PNECs**

No PNECs available

8.2 Exposure controls Appropriate engineering	: Good general ventilation should be sufficient to control worker exposure to airborne
controls	contaminants.
Individual protection meas	<u>ures</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: safety glasses with side-shields.
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.</li> <li>Always ensure that gloves are free from defects and that they are stored and used correctly.</li> <li>The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.</li> <li>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.</li> <li>May be used, gloves(breakthrough time) 4 - 8 hours: polyvinyl alcohol (PVA) (&gt; 0.3</li> </ul>
	mm) Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber (> 0.75 mm), neoprene (> 0.35 mm), PVC (> 0.5 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.

# **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	<ul> <li>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.</li> </ul>
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	: Liquid.
Colour	: A-base, B-base, C-base, White.,
Odour	: Odourless.
Odour threshold	: Not applicable.
Melting point/freezing point	: 0
Initial boiling point and boiling range	: Lowest known value: 100°C (212°F) (water). Weighted average: 106.78°C (224.2°F)
Flammability (solid, gas)	: Not applicable.
Upper/lower flammability or explosive limits	: 0.6 - 4.2%
Flash point	: Not available.
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not available.
рН	: 8.5 to 9.5
Viscosity	: Kinematic (40°C): >20.5 mm²/s
Solubility(ies)	:
Media	Result
cold water hot water	Easily soluble Easily soluble

### Partition coefficient: n-octanol/ : Not available. water

average: 2.2 kPa (16.5 mm Hg) (at 20°C) 0.36 (water) compared with butyl acetate	Date of revision	: 29.11.2023 Original preparation date : 29.11.2023 Version : 1 8/15				
average: 2.2 kPa (16.5 mm Hg) (at 20°C)0.36 (water) compared with butyl acetateVapour density: Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester 2,2,4-trimethyl-1,3-pentanediol).Explosive properties: Not available.: Not available.	Median particle size	: Not applicable.				
average: 2.2 kPa (16.5 mm Hg) (at 20°C)0.36 (water) compared with butyl acetateVapour density: Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester 2,2,4-trimethyl-1,3-pentanediol).Explosive properties: Not available.	Particle characteristics					
vapour densityaverage: 2.2 kPa (16.5 mm Hg) (at 20°C)0.36 (water) compared with butyl acetateVapour density: Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester 2,2,4-trimethyl-1,3-pentanediol).	Oxidising properties	: Not available.				
average: 2.2 kPa (16.5 mm Hg) (at 20°C)0.36 (water) compared with butyl acetateVapour density: Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester	Explosive properties	: Not available.				
average: 2.2 kPa (16.5 mm Hg) (at 20°C)	Vapour density	: Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol).				
		0.36 (water) compared with butyl acetate				
	Vapour pressure	<ul> <li>Highest known value: 2.3 kPa (17.5 mm Hg) (at 20°C) (water). Weighted average: 2.2 kPa (16.5 mm Hg) (at 20°C)</li> </ul>				

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

## 9.2 Other information

No additional information.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	1	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	No specific data.
10.5 Incompatible materials	:	No specific data.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
pyrithione zinc	LC50 Inhalation Dusts and	Rat	0.14 mg/l	4 hours	
	mists		_		
	LD50 Dermal	Rat	2000 mg/kg	-	
	LD50 Oral	Rat	221 mg/kg	-	
1,2-benzisothiazol-3(2H)-	LC50 Inhalation Dusts and	Rat	40 mg/l	4 hours	
one	mists		C C		
	LD50 Oral	Rat	485 mg/kg	-	
2-octyl-2H-isothiazol-3-one	LD50 Dermal	Rabbit	690 mg/kg	-	
	LD50 Dermal	Rabbit	690 mg/kg	-	
	LD50 Oral	Rat	550 mg/kg	-	
C(M)IT/MIT (3:1)	LD50 Oral	Rat	53 mg/kg	-	

**Conclusion/Summary** : Not available.

## Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Alcohols, C16-18 and C18-unsatd., ethoxylated	500	N/A	N/A	N/A	N/A
zinc pyrithione	221	N/A	N/A	N/A	0.14
1,2-benzisothiazol-3(2h)-one (BIT)	500	N/A	N/A	N/A	N/A
2-octyl-2h-isothiazol-3-one (OIT)	125	311	N/A	N/A	0.27
2-methyl-2H-isothiazol-3-one (MIT)	100	300	N/A	0.5	N/A
C(M)IT/MIT (3:1)	53	50	N/A	0.5	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Alcohols, C16-18 and C18-unsatd., ethoxylated	Skin - Mild irritant	Mammal - species unspecified	-	-	-
pyrithione zinc	Eyes - Irritant	Mammal - species unspecified	-	-	-
1,2-benzisothiazol-3(2H)-one	Eyes - Irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-

# **SECTION 11: Toxicological information**

**Conclusion/Summary** : Not available.

## **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
1,2-benzisothiazol-3(2H)-one	skin	Mouse	Sensitising
2-octyl-2H-isothiazol-3-one	skin	Mammal - species unspecified	Sensitising
2-methyl-2H-isothiazol-3-one	skin	Mammal - species unspecified	Sensitising
C(M)IT/MIT (3:1)	skin	Mammal - species unspecified	Sensitising
Conclusion/Summary	: Not available.		
<u>Mutagenicity</u>			
Conclusion/Summary	: Not available.		
Carcinogenicity			
Conclusion/Summary	: Not available.		
Reproductive toxicity			

Conclusion/Summary : Not available. Teratogenicity

Conclusion/Summary	: Not available.

## Specific target organ toxicity (single exposure)

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Not available.
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## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
pyrithione zinc	Category 1	-	-

## Aspiration hazard

Not available.

Information on likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	1	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	May cause an allergic skin reaction.
Ingestion	1	No known significant effects or critical hazards.
Symptoms related to the phy	sic	cal, chemical and toxicological characteristics
Eye contact	1	No specific data.
Inhalation	1	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	1	No specific data.
Delayed and immediate effec	ts	as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.

Potential delayed effects	: Not available.
l'otential delayed effects	· Not available.

# **SECTION 11: Toxicological information**

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<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
<b>Conclusion/Summary</b>	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### **Other information**

: Not available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Alcohols, C16-18 and C18-unsatd., ethoxylated	Acute LC50 1.3 mg/l	Fish	96 hours
pyrithione zinc	Acute EC50 0.067 mg/l	Algae	72 hours
	Acute EC50 0.051 mg/l	Daphnia	48 hours
	Acute LC50 0.0104 mg/l	Fish	96 hours
	Chronic NOEC 2.7 ppb Marine water	Daphnia - Daphnia magna	21 days
1,2-benzisothiazol-3(2H)-one	Acute EC50 0.15 mg/l	Algae - Slenastrum capricornutum	72 hours
	Acute EC50 1.05 mg/l	Crustaceans - Daphnia magna	96 hours
	Acute LC50 1.4 mg/l	Fish - Onchorhynchus mykiss	96 hours
2-octyl-2H-isothiazol-3-one	Acute EC50 0.084 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 0.32 mg/l	Daphnia	48 hours
	Acute LC50 0.047 mg/l	Fish	96 hours
2-methyl-2H-isothiazol-3-one	Acute EC50 0.445 mg/l	Algae	24 hours
-	Acute EC50 2.94 mg/l	Daphnia	48 hours
	Acute LC50 6 mg/l	Fish	96 hours
C(M)IT/MIT (3:1)	Acute EC50 0.048 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 0.0052 mg/l	Algae - Skeletonema costatum	48 hours
	Acute EC50 0.1 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.22 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Acute NOEC 0.00064 mg/l	Algae - Skeletonema costatum	48 hours
	Chronic NOEC 0.0012 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0.004 mg/l	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.098 mg/l	Fish - Oncorhynchus mykiss	28 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
C(M)IT/MIT (3:1)	-	-	Not readily

### 12.3 Bioaccumulative potential

Date of revision

# **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential
Alcohols, C16-18 and C18-unsatd., ethoxylated	4.2	-	high
pyrithione zinc	0.9	11	low
2-octyl-2H-isothiazol-3-one	2.45	-	low
C(M)IT/MIT (3:1)	-	3.16	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**

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and 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.
Maata liat	

#### Waste list

Waste code	Waste code definition		
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances		
Packaging			
Methods of disposal	<ul> <li>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.</li> </ul>		
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	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
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SECTION 14: Transport information					
14.4 Packing group	-	-	-	-	
14.5 Environmental hazards	No.	No.	No.	No.	

14.6 Special precautions for	:	Transport within user's premises: always transport in closed containers that are
user		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	: Not available.
according to IMO	
instruments	

# **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 : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

### **Ozone depleting substances**

Not listed.

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

This product is not controlled under the Regulation on the prevention of major industrial accidents and reduction of their effects.

### EU regulations

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation Annex XIV None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants Not listed.

# **SECTION 15: Regulatory information**

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

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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
Decodure used to devis	the electricities according to regulation CEA, DC, 40/42/2020, 24220

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

Classification	Justification
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

#### Full text of abbreviated H statements

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [SEA/GHS]

# **SECTION 16: Other information**

SECTION 16: Other Information		
Acute Tox. 2	ACUTE TOXICITY - Category 2	
Acute Tox. 3	ACUTE TOXICITY - Category 3	
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 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B	
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1	
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
Skin Sens. 1A STOT RE 1	SKIN SENSITISATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1	
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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.