# **SAFETY DATA SHEET**



**OPAL 10 - All variants** 

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

#### 1.1 Product identifier Product name

: ØPAL 10 - All variants

**1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use**: Lacquers.

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

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person : Prod-safe@teknos.com

responsible for this SDS

#### **National contact**

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

#### **1.4 Emergency telephone number**

#### National advisory body/Poison Centre

Telephone number: In an emergency, call 112

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u> Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements		
Signal word	1	No signal word.
Hazard statements	1	No known significant effects or critical hazards.
Precautionary statements		
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	Contains adipohydrazide, 1,2-benzisothiazol-3(2H)-one, reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) and 2-Methyl-1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction. Safety data sheet available on request. Contains biocidal products for in-can preservation: BIT and Bronopol and DTBMA and C(M)IT/MIT (3:1) and MBIT.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	

## **SECTION 2: Hazards identification**

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII Other hazards which do

not result in classification

: This mixture contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.

: None known.

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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
adipohydrazide	REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8	≤0.3	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
bumetrizole	EC: 223-445-4 CAS: 3896-11-5	≤0.3	Not classified.	-	[2]
1,2-benzisothiazol-3(2H)- one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.05	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	ATE [Oral] = 1020 mg/kg Skin Sens. 1, H317: C ≥ 0.05% M [Acute] = 1	[1]
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:1)	CAS: 55965-84-9 Index: 613-167-00-5	<0.0015	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: $C \ge 0.6\%$ Eye Dam. 1, H318: $C \ge 0.6\%$ Eye Irrit. 2, H319: $0.06\% \le C < 0.6\%$ Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 100 M [Chronic] = 100	[1]
2-Methyl-1,2-benzisothiazol- 3(2H)-one	CAS: 2527-66-4 Index: 613-336-00-3	<0.0015	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 EUH071 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 175 mg/kg ATE [Dermal] = 1100 mg/kg Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 1	[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, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

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

Substance classified with a health or environmental hazard

[2] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

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

#### 4.1 Description of first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

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

#### Over-exposure signs/symptoms

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

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

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

# 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 fr	on	i 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.
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	:	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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	Special protective	1	Fire-fighters should wear appropriate protective equipment and self-contained
	equipment for fire-fighters		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	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. 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).
6.3 Methods and material for	со	ntainment 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. 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.
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).
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. 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.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

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

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

### 8.1 Control parameters

#### Occupational exposure limits

Ethyldiglycol       Regulation on Limit Values - MAC (Austria, 4/2021).         PEAK: 24 pm/4 times per shift, 15 minutes.         reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one (EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one (EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one (EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one (mixture in the ratio 3:1)] Skin sensitier.         No exposure limit value known.       No exposure limit value known.         No exposure limit value known.       No exposure limit value known.         No exposure limit value known.       No exposure limit value known.         No exposure limit value known.       No exposure limit value known.         No exposure limit value known.       No exposure limit value known.         No exposure limit value known.       PEG MAC-values list (Germany, 7/2022).         PEAK: 100 mg/m² & hures.       Form: inhalable fraction TWA 50 mg/m² & hures.         1,2-benzisothiazol-3(2H)-one No exposure limit value known.       PEAK: 100 mg/m² & hures.         No exposure limit value known.       PEAK: 100 mg/m² & hures.         No exposure limit value known.       PEAK: 100 mg/m² & hures.         No exposure limit value known.       PEAK: 100 mg/m² & hures.         No exposure limit value known.       PEAK: 100 mg/m² & hures.         No exposure limit value known.       PEAK: 100 mg/m² & hures.         No exposure limit value k	Product/ingredient name	Exposure limit values
<ul> <li>reaction mass of: 5-chloro-2-methyl-4isothiazoi-3-one [EC no. 247-500-7] and 4-methyl-23-4ilydroisothiazoi-3-one and 2-methyl-2,3-4ilydroisothiazoi-3-one (mixture in the ratio 3:1)] Skin sensitiser.</li> <li>Regulation on Limit Values - MAC (Austria, 4/2021), [5-chlord 2-methyl-2,3-4ilydroisothiazoi-3-one (mixture in the ratio 3:1)] Skin sensitiser.</li> <li>No exposure limit value known.</li> <li>No exposure limit value known.</li></ul>	Ethyldiglycol	PEAK: 140 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. PEAK: 24 ppm, 4 times per shift, 15 minutes. TWA: 35 mg/m <sup>3</sup> 8 hours.
No exposure limit value known. No exposure limit value known.	4-isothiazolin-3-one [EC no. 247-500-7] an 2-methyl-2H-isothiazol-3-one [EC no.	Regulation on Limit Values - MAC (Austria, 4/2021). [5-chloro- 2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-di- hydroisothiazol-3-one (mixture in the ratio 3:1)] Skin sensitiser.
No exposure limit value known. No exposure limit value known. Ethyldigiycol DFG MAC-values list (Germany, 7/2022). PEAK: 100 mg/m³ 8 hours. Form: inhalable fraction TRGS 900 OEL (Germany, 6/2022). TWA: 35 mg/m³ 8 hours. PEAK: 700 mg/m³ 15 minutes. TWA: 50 mg/m³ 8 hours. PEAK: 700 mg/m³ 15 minutes. TWA: 50 mg/m³ 8 hours. PEAK: 700 mg/m³ 15 minutes. TWA: 50 mg/m³ 8 hours. PEAK: 70 mg/m³ 15 minutes. TWA: 50 mg/m³ 15 mi	No exposure limit value known.	
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No exposure limit value known.	
Ethyldiglycol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). KTV: 12 ppm, 4 times per shift, 15 minutes. TWA: 6 ppm 8 hours. KTV: 70 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. TWA: 35 mg/m <sup>3</sup> 8 hours.
No exposure limit value known.	
Ethyldiglycol	Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. TWA: 15 ppm 8 hours. TWA: 80 mg/m <sup>3</sup> 8 hours. STEL: 30 ppm 15 minutes. STEL: 170 mg/m <sup>3</sup> 15 minutes.
₽thyldiglycol	SUVA (Switzerland, 1/2023). STEL: 100 mg/m <sup>3</sup> 15 minutes. Form: Inhalable fraction of Vapor and aerosols TWA: 50 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction of Vapor and aerosols
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	SUVA (Switzerland, 1/2023). Skin sensitiser.
	STEL: 0.4 mg/m <sup>3</sup> 15 minutes. Form: Inhalable fraction TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction
No exposure limit value known.	

#### **Biological exposure indices**

Product/ingredient	name		Exposure indic	es	
No exposure indices known.					
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ç	SECTION 8: Exposure controls/personal protection
	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
dipohydrazide	DNEL	Long term Inhalation	17.5 mg/m <sup>3</sup>	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 Inhalation	6.81 mg/m³	Workers	Systemic
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	DNEL	Long term Inhalation	0.02 mg/m³	General population	Local
(0.1)	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 Inhalation	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 controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

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

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 Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard 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	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
	Recommendations : Wear suitable gloves tested to EN374.
	> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	Not recommended polyvinyl alcohol (PVA) gloves
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	<ul> <li>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.</li> </ul>
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.
	Filter type (spray application): A P
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	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	:

Ingredient name		°C	°F	Method
Water		100	212	
Ethyldiglycol		196	384.8	
Flammability	: Not ava	ilable.		
Lower and upper explosion limit	: <mark>Iz</mark> ower: Upper:			
Flash point	: Closed	cup: >100°C (>212	2°F)	
Auto-ignition temperature	:			

Ingredient name		°C	°F	Method	
<b>⊑</b> thyldiglycol		204	399.2		
Decomposition temperature	:	Not available.	ł	<u>I</u>	
pH	:	7.5 to 8.5 [Conc. (9	% w/w): 100%]		
Viscosity	:	Not available.			
Solubility(ies)	:				
Not available.					
Solubility in water	:	Not available.			
Partition coefficient: n-octanol/ water	:	Not applicable.			

#### Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
water	17.5	2.3						
Ethyldiglycol	0.14	0.019						
Relative density	: Not	available.						
Density	: 1.1	g/cm³						
Vapour density	: Not	available.						
Explosive properties	: Not	available.						
Oxidising properties	: Not	available.						
Particle characteristics								
Median particle size	: Not	applicable.						

# **SECTION 10: Stability and reactivity**

\$

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: 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 hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
,2-benzisothiazol-3(2H)-	LD50 Oral	Rat	1020 mg/kg	-
one reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	LD50 Oral	Rat	53 mg/kg	-

Conclusion/Summary

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

#### Acute toxicity estimates

Route	ATE value
Not available.	

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observatio	<b>on</b>
<ul> <li>2-benzisothiazol-3(2H)-one reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)</li> </ul>	Skin - Mild irritant Skin - Severe irritant	Human Human	-	48 hours 5 % 0.01 %	-	
<b>Conclusion/Summary</b>	: Based on available data, the	classification c	riteria are	e not met.		
<u>Sensitisation</u>						
<b>Conclusion/Summary</b>	: Based on available data, the	classification c	riteria are	e not met.		
<b>Mutagenicity</b>						
<b>Conclusion/Summary</b>	: Based on available data, the	classification c	riteria are	e not met.		
<b>Carcinogenicity</b>						
<b>Conclusion/Summary</b>	: Based on available data, the	classification c	riteria are	e not met.		
Reproductive toxicity						
<b>Conclusion/Summary</b>	: Based on available data, the	classification c	riteria are	e not met.		
<b>Teratogenicity</b>						
<b>Conclusion/Summary</b>	: Based on available data, the	classification c	riteria are	e not met.		
Specific target organ toxicit	<u>y (single exposure)</u>					
Not available.						
Specific target organ toxicit Not available.	<u>y (repeated exposure)</u>					
Aspiration hazard Not available.						
Information on likely routes of exposure	: Not available.					
Potential acute health effects	1					
Eye contact	: No known significant effects	or critical haza	ds.			
Inhalation	: No known significant effects	or critical haza	ds.			
Skin contact	: No known significant effects	or critical haza	ds.			
Ingestion	: No known significant effects	or critical hazaı	ds.			
Symptoms related to the physical	sical, chemical and toxicologi	cal characteris	tics			
Eye contact	: No specific data.					
Inhalation	: No specific data.					
Date of issue/Date of revision	: 15/02/2024 Date of previous	issue : 21/	02/2023	Vers	ion :6 10/	'17

# SECTION 11: Toxicological information

Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effec	ts	as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	1	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	1	No known significant effects or critical hazards.
Reproductive toxicity	1	No known significant effects or critical hazards.

1.2 Information on other hazards	
11.2.1 Endocrine disrupting propertie	S
Not available.	
11.2.2 Other information	
Not available.	

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
1,2-benzisothiazol-3(2H)-one	Acute EC50 0.36 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
	Acute EC50 3.7 mg/l	Daphnia - Daphnia Magna	48 hours
	Acute LC50 1.9 mg/l Fresh water	Fish - Onorhynchus Mykiss	96 hours
	Acute NOEC 0.15 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
2-Methyl-1,2-benzisothiazol- 3(2H)-one	Acute EC50 0.22 ppm Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
· · /	Acute EC50 0.92 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 0.24 ppm Fresh water	Fish - <i>Oncorhynchus mykiss</i> - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 0.16 ppm	Fish - Pimephales promelas	32 days

**Conclusion/Summary** 

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

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
★,2-benzisothiazol-3(2H)-one	EU	24 % - 28 days		-	-
Conclusion/Summary : This product has not been tested for biodegradation.					
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
7,2-benzisothiazol-3(2H)-one	-		-		Inherent

#### 12.3 Bioaccumulative potential

Date of issue/Date of revision

# SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential
pumetrizole			High
1,2-benzisothiazol-3(2H)-one	-	3.2	Low

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
dipohydrazide	No	N/A	N/A	No	N/A	N/A	N/A
bumetrizole	No	N/A	No	No	SVHC (Candidate)	Specified	Specified
1,2-benzisothiazol-3(2H)-one	No	N/A	No	No	No	N/A	No
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	N/A	N/A	No	N/A	N/A	N/A
2-Methyl-1,2-benzisothiazol- 3(2H)-one	No	N/A	N/A	No	N/A	N/A	N/A

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

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.
European waste catalogue (EWC)	: 080112, 200128
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.
Special precautions	This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

: Not relevant/applicable due to nature of the product.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### 14.7 Maritime transport in bulk according to IMO instruments

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

#### **Annex XIV**

None of the components are listed.

#### Substances of very high concern

Intrinsic property	Ingredient name			Date of revision
ν̈́ΡνΒ	bumetrizole	Candidate	D(2023) 8585-DC	-

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Labelling	1.
Other EU regulations	
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
Explosive precursors	: Not applicable.
Ozone depleting substand Not listed.	<u>ces (1005/2009/EU)</u>
Prior Informed Consent (P	<u>PIC) (649/2012/EU)</u>

Not listed.

### **SECTION 15: Regulatory information**

#### Persistent Organic Pollutants Not listed.

#### Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations		
<u>Austria</u>		
VbF class	1	Not regulated.
Limitation of the use of organic solvents	1	Permitted.
Czech Republic		
Storage code	:	
<u>Denmark</u>		
Danish fire class	1	IV-1
MAL-code	1	0-3
Protection based on MAL	:	According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:
		<b>General:</b> Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 0-3

**Application:** During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing\* facility type, if the operator is inside the spray zone.

- Coveralls must be worn.

When spraying in existing\* spray booths, if the operator is outside the spray zone.

- Arm protectors and apron must be worn.

During non-atomising spraying in existing\* facilities of the combined-cabin, spraycabin and spray-booth type where the operator is working inside the spray zone.

- Gas filter mask must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, coveralls and hood must be worn.

**Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

**Polishing:** When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

# **SECTION 15: Regulatory information**

	Caution	The regulations	contain other stipulat	tions in addition to th	ne above.
Restrictions on use		used by profess	sional users below 18 thorities Executive Or		
List of undesirable substances	•	: Not listed			
<b>Finland</b>					
<b>France</b>					
Reinforced medical surveillance		ly 11, 1977 detei surveillance: not	rmining the list of activ applicable	vities which require	reinforced
<u>Germany</u>					
Storage class (TRGS 5					
Hazardous incident or					
This product is not contr Hazard class for water		ermany Hazardo	ous Incident Ordinanc	e.	
Technical instruction c air quality control	on : TA-Luft N	lumber 5.2.5: 4.	6%		
AOX		uct contains org vaste water.	anically bound haloge	ens and can contribu	ite to the AOX
<u>Italy</u>					
D.Lgs. 152/06	: Not deter	mined.			
Netherlands					
					mutogonio or
Ministry of Social Affai reprotoxic substances		nent (SZW) - Ca	rcinogenic substand	ces and processes	, mutagenic or
		nent (SZW) - Ca Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
reprotoxic substances	; 		Reproductive toxicity -	Reproductive toxicity -	Harmful via breastfeeding
reprotoxic substances Ingredient name	Carcinogen Listed y : A(4) Low	Mutagen - hazard for aqua	Reproductive toxicity - Fertility	Reproductive toxicity - Development Development 1A ave long-term hazar	Harmful via breastfeeding Listed
reprotoxic substances Ingredient name ethanol Water Discharge Policy (ABM) Norway Sweden	Carcinogen Listed y : A(4) Low	Mutagen - hazard for aqua	Reproductive toxicity - Fertility Fertility 1A tic organisms, may ha	Reproductive toxicity - Development Development 1A ave long-term hazar	Harmful via breastfeeding Listed
reprotoxic substances Ingredient name Ethanol Water Discharge Policy (ABM) Norway Sweden Switzerland	Carcinogen Listed y : A(4) Low aquatic e : Exempt.	Mutagen - hazard for aqua	Reproductive toxicity - Fertility Fertility 1A tic organisms, may ha	Reproductive toxicity - Development Development 1A ave long-term hazar	Harmful via breastfeeding Listed
reprotoxic substances Ingredient name ethanol Water Discharge Policy (ABM) Norway Sweden Switzerland VOC content	Carcinogen Listed y : A(4) Low aquatic e : Exempt.	Mutagen - hazard for aqua nvironment. Dec	Reproductive toxicity - Fertility Fertility 1A tic organisms, may ha	Reproductive toxicity - Development Development 1A ave long-term hazar	Harmful via breastfeeding Listed
reprotoxic substances Ingredient name ethanol Water Discharge Policy (ABM) Norway Sweden Switzerland VOC content International regulations	Carcinogen Listed y : A(4) Low aquatic e : Exempt.	Mutagen - hazard for aqua nvironment. Dec	Reproductive toxicity - Fertility Fertility 1A tic organisms, may ha	Reproductive toxicity - Development Development 1A ave long-term hazar	Harmful via breastfeeding Listed
reprotoxic substances Ingredient name ethanol Water Discharge Policy (ABM) Norway Sweden Switzerland VOC content International regulations Chemical Weapon Conv	Carcinogen Listed y : A(4) Low aquatic e : Exempt.	Mutagen - hazard for aqua nvironment. Dec	Reproductive toxicity - Fertility Fertility 1A tic organisms, may ha	Reproductive toxicity - Development Development 1A ave long-term hazar	Harmful via breastfeeding Listed
reprotoxic substances Ingredient name ethanol Water Discharge Policy (ABM) Norway Sweden Switzerland VOC content International regulations Chemical Weapon Conv Not listed. Montreal Protocol	Carcinogen Listed y : A(4) Low aquatic e : Exempt. <u>S</u> vention List Sche	Mutagen - hazard for aqua nvironment. Dec	Reproductive toxicity - Fertility Fertility 1A titic organisms, may ha contamination effort: A	Reproductive toxicity - Development Development 1A ave long-term hazar	Harmful via breastfeeding Listed
reprotoxic substances Ingredient name Fithanol Water Discharge Policy (ABM) Norway Sweden Switzerland VOC content International regulations Chemical Weapon Convent Not listed. Montreal Protocol Not listed. Stockholm Convention	Carcinogen Listed y : A(4) Low aquatic e : Exempt. S vention List Sche on Persistent Or	Mutagen  - hazard for aqua nvironment. Dec	Reproductive toxicity - Fertility         Fertility 1A         tic organisms, may have the contamination effort: A         Chemicals         ts	Reproductive toxicity - Development Development 1A ave long-term hazar	Harmful via breastfeeding Listed

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

15.2 Chemical safety	his produ	ct contains substances for which Chemical Safety Assessments are still
assessment	equired.	

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

	as onlyinged norm previously isolated version.
Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level</li> </ul>
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative
<b>–</b> • • • • • •	

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Not classified.

Full text of abbreviated H statements

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful 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.
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.
EUH071	Corrosive to the respiratory tract.
Full tout of all	

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

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 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Date of issue/ Date of	: 15/02/2024
revision	
Date of previous issue	e : 21/02/2023
Version	: 6

#### Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

*Date of issue/Date of revision* ØPAL 10 - All variants : 15/02/2024 Date of previous issue