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

: OPAL 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

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] 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	:	No signal word.
Hazard statements	:	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 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 does not contain any substances that are assessed to be a PBT or a vPvB.

: 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
7,2-benzisothiazol-3(2H)- one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.036	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = 0.21 mg/l Skin Sens. 1, H317: C $\geq 0.036\%$ M [Acute] = 1 M [Chronic] = 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)	EC: 911-418-6 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 ≥ 0.6% Eye Dam. 1, H318: C ≥ 0.6% Eye Irrit. 2, H319: 0.06% ≤ C < 0.6% Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 100 M [Chronic] = 100	[1]
2-Methyl-1,2-benzisothiazol- 3(2H)-one	EC: 695-989-4 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. Type

Substance classified with a health or environmental hazard

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

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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 f	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.
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.
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	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. 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	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. 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.
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. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

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

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 15 minutes: 140 mg/m ³ 4 times per shift. PEAK 15 minutes: 24 ppm 4 times per shift. TWA 8 hours: 35 mg/m ³ . TWA 8 hours: 6 ppm.
reaction mass of: 5-chloro-2-meth 4-isothiazolin-3-one [EC no. 247-{ 2-methyl-2H-isothiazol-3-one [EC 220-239-6] (3:1)	500-7] and 2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-di-
No exposure limit value known.	
₽thyldiglycol	 TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 35 mg/m³. PEAK 15 minutes: 70 mg/m³. TWA 8 hours: 6 ppm. PEAK 15 minutes: 12 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. PEAK 15 minutes: 100 mg/m³ 4 times per shift [Interval: 1 hour Form: inhalable fraction. TWA 8 hours: 50 mg/m³. Form: inhalable fraction.
1,2-benzisothiazol-3(2H)-one	DFG MAC-values list (Germany, 7/2023) Skin sensitiser.
No exposure limit value known.	

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SECTION 8: Exposure controls/p	ersonal protection
No exposure limit value known.	
₽thyldiglycol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) KTV 15 minutes: 12 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. TWA 8 hours: 6 ppm. KTV 15 minutes: 70 mg/m ³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. TWA 8 hours: 35 mg/m ³ .
No exposure limit value known.	
₽thyldiglycol	Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 15 ppm. TWA 8 hours: 80 mg/m ³ . STEL 15 minutes: 30 ppm. STEL 15 minutes: 170 mg/m ³ .
E thyldiglycol	SUVA (Switzerland, 1/2024) STEL 15 minutes: 100 mg/m ³ . Form: Inhalable fraction of Vapor and aerosols. TWA 8 hours: 50 mg/m ³ . 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, 1/2024) Sensitiser. STEL 15 minutes: 0.4 mg/m³. Form: Inhalable fraction. TWA 8 hours: 0.2 mg/m³. Form: Inhalable fraction.
No exposure limit value known.	

Biological exposure indices

Product/ingredient name	Exposure indices
No exposure indices known.	

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SECTION 8: Exposure	controls/ner	sonal protection
No exposure indices known.		
No exposure indices known.		
No exposure indices known.		
Recommended monitoring : procedures	European Standa assessment of ex values and measu atmospheres - Gu of exposure to ch (Workplace atmo for the measurem	I be made to monitoring standards, such as the following: and EN 689 (Workplace atmospheres - Guidance for the coosure by inhalation to chemical agents for comparison with limit urement strategy) European Standard EN 14042 (Workplace uide for the application and use of procedures for the assessment emical and biological agents) European Standard EN 482 spheres - General requirements for the performance of procedures nent of chemical agents) Reference to national guidance ethods for the determination of hazardous substances will also be
DNELs/DMELs		
Product/ingredient name		Result
2-benzisothiazol-3(2H)-one		DNEL - General population - Long term - Dermal 0.345 mg/kg bw/day Effects: Systemic
		DNEL - Workers - Long term - Dermal 0.966 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Long term - Inhalation 1.2 mg/m ³ <u>Effects</u> : Systemic
		DNEL - Workers - Long term - Inhalation 6.81 mg/m³ <u>Effects</u> : Systemic
reaction mass of: 5-chloro-2-m 4-isothiazolin-3-one [EC no. 24 2-methyl-2H-isothiazol-3-one [E 220-239-6] (3:1)	7-500-7] and	DNEL - General population - Long term - Inhalation 0.02 mg/m³ <u>Effects</u> : Local
		DNEL - Workers - Long term - Inhalation 0.02 mg/m³ <u>Effects</u> : Local
		DNEL - General population - Short term - Inhalation 0.04 mg/m ³ Effects: Local
		DNEL - Workers - Short term - Inhalation 0.04 mg/m ³ <u>Effects</u> : Local
		DNEL - General population - Long term - Oral 0.09 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Short term - Oral
ate of issue/Date of revision	: 24/02/2025 Date	of previous issue : 15/02/2024 Version : 7 7/19

0.11 mg/kg bw/day Effects: Systemic

PNECs

Not available.

8.2 Exposure controls		
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to air contaminants.	rborne
Individual protection meas	<u>es</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 p Appropriate techniques should be used to remove potentially contaminated cl Wash contaminated clothing before reusing. Ensure that eyewash stations a safety showers are close to the workstation location.	beriod. lothing.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a assessment indicates this is necessary to avoid exposure to liquid splashes, a gases or dusts. If contact is possible, the following protection should be worn unless the assessment indicates a higher degree of protection: safety glasse side-shields.	mists, 1,
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard be worn at all times when handling chemical products if a risk assessment inc 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	: Personal protective equipment for the body should be selected based on the being performed and the risks involved and should be approved by a specialis 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 shoul approved by a specialist before handling this product.	ld be
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meet appropriate standard or certification. Respirators must be used according to respiratory protection program to ensure proper fitting, training, and other imp aspects of use.	а
	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 legislar In some cases, fume scrubbers, filters or engineering modifications to the pro- equipment will be necessary to reduce emissions to acceptable levels.	ition.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	: Liquid.
Colour	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	:

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Ingredient name	°C	°F	Method	
water	100	212		
Ethyldiglycol	196	384.8		
lammability	: Not available.			
ower and upper explosion		2-ethoxyethoxy)ethar (2-ethoxyethoxy)etha		
lash point	: Closed cup: >100	°C (>212°F)		
Auto-ignition temperature	:			

Auto-ignition temperature

	Ingredient name	°C	°F	Method
	₽t hyldiglycol	204	399.2	
П	ecomposition temperature : Not ava	ilahle	• • •	

Decomposition temperature	NUL avallable.	
рН	7.8 to 8.6 [Conc. (% w/w): 10	0%]
Viscosity	Not available.	
Solubility(ies)		
Not available.		
Solubility in water	Not available.	
Partition coefficient: n-octanol/	Not applicable.	

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water

Vapour pressure

	Va	apour Press	ure at 20°C	V	apour pres	ssure 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.	- 1			
Density	: 1.1	g/cm³				
/apour density	: Not	available.				
Particle characteristics						
Median particle size	: Not	applicable.				
2 Other information						
.2.1 Information with reg	ard to physic	al hazard c	lasses			
						

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

9.2.2 Other safety characteristics

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.	

SECTION 10: Stability and reactivity

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

2-benzisothiazol-3(2H)-one

Result

Rat - Oral - LD50 1020 mg/kg

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) Rat - Oral - LD50 53 mg/kg <u>Toxic effects</u>: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration -Respiratory depression

Conclusion/Summary [Product] : 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)
PAL 10 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)	N/A 450 53	N/A N/A 50	669321.3 N/A N/A	N/A N/A 0.5	N/A 0.21 N/A
2-Methyl-1,2-benzisothiazol-3(2H)-one	175	1100	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name

2-benzisothiazol-3(2H)-one

Result

Human - Skin - Mild irritant Duration of treatment/exposure: 48 hours Amount/concentration applied: 5 %

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) Human - Skin - Severe irritant Amount/concentration applied: 0.01 %

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

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SECTION 11: Toxicological information

Conclusion/Summary [Pro	oduct] : Not available.
Respiratory	
Conclusion/Summary [Pro	oduct] : Not available.
Germ cell mutagenicity	
Not available.	
Conclusion/Summary [Pro	oduct] : Not available.
Carcinogenicity	
Not available.	
Conclusion/Summary [Pro	oduct] : Not available.
Reproductive toxicity	
Not available.	
Conclusion/Summary [Pro	oducti - Not available
	Mucij . Not avaliabie.
<mark>Specific target organ toxicit</mark> Not available.	<u>y (single exposure)</u>
Specific target organ toxicit	v (repeated exposure)
<mark>Specific target organ toxicit</mark> Not available.	y (repeated exposure)
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Not available. Aspiration hazard Not available. Information on likely routes Not available. Potential acute health effect Eye contact Inhalation Skin contact Ingestion Symptoms related to the ph Eye contact Inhalation Skin contact Inhalation Skin contact Ingestion Delayed and immediate effe Short term exposure Potential immediate effects Potential delayed effects Long term exposure	of exposure Image: Solution of the system of the

SECTION 11: Toxicological information

Conclusion/Summary [P	roduct] : Not available.
General	: No known significant effects or critical hazards.
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.

11.2 Information on other hazards

Not available.

Conclusion/Summary [Product]

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name 2-benzisothiazol-3(2H)-one

2-Methyl-1,2-benzisothiazol-3(2H)-one

Result

Acute - LC50 - Fresh water OECD [Fish, Acute Toxicity Test] Fish - Trout - Onorhynchus Mykiss 1.9 mg/l [96 hours]

Acute - EC50 OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test] Daphnia - Daphnia - Daphnia Magna 3.7 mg/l [48 hours]

Acute - EC50 - Marine water

OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - Skeletonema Costatum 0.36 mg/l [72 hours]

Acute - NOEC - Marine water

OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - Skeletonema Costatum 0.15 mg/l [72 hours]

Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna 0.92 ppm [48 hours] Effect: Intoxication

Acute - EC50 - Fresh water

US EPA Algae - Green algae - Pseudokirchneriella subcapitata 0.22 ppm [96 hours] Effect: Population

Acute - LC50 - Fresh water

US EPA Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss -Juvenile (Fledgling, Hatchling, Weanling) 0.24 ppm [96 hours] Effect: Mortality

Chronic - NOEC

: 15/02/2024

US EPA Age: <24 hours

SECTION 12: Ecological information

US EPA

Fish - Fathead minnow - *Pimephales promelas* 0.16 ppm [32 days]

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Product/ingredient name

2-benzisothiazol-3(2H)-one

Result

EU 24% [28 days]

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
7,2-benzisothiazol-3(2H)-one	-	-	Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
7,2-benzisothiazol-3(2H)-one	-	3.2	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
7,2-benzisothiazol-3(2H)-one	1.86	73.142
2-Methyl-1,2-benzisothiazol-3(2H)-one	1.72	52.5063

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	Μ	т	vPvM	vP	vM
[_ ··· - ···] · ·· , _ ·· - ·· <u>_</u> ·· - · · <u>_</u> ·· - · · · · <u>_</u> ·· · · · <u>_</u> ·· · · · <u>_</u> ·· · · · · <u>_</u> ·· · · · · · · · · · · · · · · · · ·	No No No						
3(2H)-one Mobility	: Not ava	ailable.					

Conclusion/Summary

: The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
 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: 	No No						
1) 2-Methyl-1,2-benzisothiazol- 3(2H)-one	No						

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	Ρ	В	т	vPvB	vP	vB
2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	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	No	No	No	No	No	No
2-Methyl-1,2-benzisothiazol- 3(2H)-one	No	No	No	No	No	No	No

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment metho	ods
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.

SECTION 14: Transport information

	-			
	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)	-	-	-	-
Date of issue/Date of rev	vision : 24/02/20	25 Date of previous issue	: 15/02/2024	Version : 7 14/19
OPAL 10 - All varian	ts	,		Label No :109238

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 Maritime transport in	: N
bulk according to IMO	
instruments	

Not relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Labelling	:
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 substance	<u>es (EU 2024/590)</u>
Not listed.	
Prior Informed Consent (P Not listed.	<u>PIC) (649/2012/EU)</u>
Persistent Organic Polluta Not listed.	<u>ints</u>
Seveso Directive	
This product is not controlle	d under the Seveso Directive.
National regulations	
<u>Austria</u>	
Limitation of the use of organic solvents	: Permitted.
<u>Belgium</u>	
Czech Republic	
Storage code	: IV
<u>Denmark</u>	
Date of issue/Date of revision	: 24/02/2025 Date of previo

clothes do not adequately protect skin against contact with the product. A Tace shield must be worn in work involving spatiening if a full mask is not required. In the case, other recommended use of eye protection is not required. In all spraying operations in which there is return spray. The following must be wor respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed. If AL-code: 0-1 Application: When spraying in existing* spray booths, if the operator is outside 1 spray zone. - Arm protectors must be worn. During non-atomising spraying in existing* facilities of the combined-cabin, spray cabin 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, cal or booth. - Full mask with combined filter, coveralls and hood must be worn. Drying: Items for drying/drying ovens that are temporarily placed on such things 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. Caution The regulations. See Regulations. : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At W. List of undesirable surveillance:	Protection based on MAL : According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment: General: Giverals/protective clothing must be worn when soling is so great that regular we clothes do not adequately protect skin against contact with the product, face shield must be worn in work involving spattering if a full mask is not required. In the case, other recommended use of eye protection is not required. In the case, other recommended use of eye protections is not required. In the case, other recommended use of eye protections is not required. In the case, other recommended use of eye protections is not required. In the case, other recommended use of eye protections is not required. In the case, other recommended use of eye protections is not required. In the case, other recommended use of eye protections is not required. In the case, other recommended use of eye protections is not required. In the case, other recommended use of eye protections is not required. In the case, other recommended use of eye protections is not required. In the case, other recommended use of eye protections is not required. In the case, other recommended use of eye protections is not required. In the 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. During non-atomising spraying in existing spray booths, if the operator is outside spray zone. - Arm protectors must be worn. During non-atomising spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cale oboth. - Full mask with combined filter, coveralls and hood must be worn. Dr	Fire class	:	₩ -1
stipulations apply to the use of personal protective equipment: General: Gioves must be worn for all work that may result in solling, Apron/ coveralis/protective cloiting must be worn when solling its so great that regular work otheres do not adequately protect skin against contact with the product. A face shield must be worn invokin invoking invoking if a till mask is not required. In the case, other recommended use of eye protection is not required. In all spraying operations in which there is return spray, the following must be won respiratory protection and arm protectors/apron/coveralis/protective clothing as appropriate or as instructed. WiAL-code: 0-1 Application: When spraying in existing' facilities of the combined-cabin, spray cabin and spray-booth type where the operator is working inside the spray zone. - Arm protectors must be worn. During non-atomising spraying in existing' facilities of the combined-cabin, spray cabin 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, cat or booth. - Full mask with combined filter, coveralls and hood must be worn. Drying: Items for drying/drying ovens that are temporarily placed on such things rack tralleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone. - Full mask with combined filter, coveralls and hood must be worn.	stipulations apply to the use of personal protective equipment: General: Gloves must be worn for all work that may result in solling, Apron/ coveralis/protective (obting must be worn when solling its og great that regular wo clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spatiating if a full mask is not required. In it case, other recommended use of eye protection is not required. In all spraying operations in which there is return spray, the following must be wo respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed. WAL-code: 0-1 Application: When spraying in existing' spray booths, if the operator is outside: spray zone. - Arm protectors must be worn. During non-atomising spraying in existing' facilities of the combined-cabin, spray cabin 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, cal or booth. - Full mask with combined filter, coveralls and hood must be worn. Drying: Items for drying/drying ovens that are temporarily placed on such things rack tralleys, etc. must be equipped with a mechanical exhaust system to preven fumes from wet items from passing through workers' inhalation zone. Polishing: When polishing treated surfaces, a mask with dust filter must be wor When machine ginding, eye protection must be worn. Work gloves must always worn. Caution The regulations	MAL-code	:	<mark>0-</mark> 1
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Technical instruction on air quality control (TA Luft)		Hazard class for water	:	1

OPAL 10 - All variants

Label No :1/09238

SECTION 15: Regulatory information

Number [Class]		scription			%
5 .2.1 5.2.5 5.2.5 [Ⅰ]		Total dust Organic substances Organic substances			30.6 4.9 4
ΑΟΧ		roduct contains org in waste water.	anically bound haloge	ens and can contrib	ute to the AOX
Italy					
D.Lgs. 152/06	: Not d	etermined.			
Netherlands					
Ministry of Social Aff reprotoxic substance		oyment (SZW) - Ca	rcinogenic substan	ces and processes	s, mutagenic or
Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
ethanol	Listed	-	Fertility 1A	Development 1A	Listed
Norway Sweden Switzerland VOC content nternational regulatio Chemical Weapon Con Not listed.			<u>Chemicals</u>		
<u>Iontreal Protocol</u> Not listed.					
itockholm Conventio Not listed.	<u>n on Persisten</u>	t Organic Pollutan	<u>ts</u>		
Rotterdam Convention Not listed.	n on Prior Info	med Consent (PIC	<u>)</u>		
JNECE Aarhus Protoc Not listed.	ol on POPs ar	id Heavy Metals			
5.2 Chemical safety sessment	: This requir		bstances for which Cł	nemical Safety Asse	essments are still
ECTION 16: Oth	ner informa	ation			
Indicates information	that has chang	ed from previously i	ssued version.		
obreviations and cronyms			imate pelling and Packaging	Regulation [Regula	ition (EC) No.

	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
:	SGG = Segregation Group
,	vPvB = Very Persistent and Very Bioaccumulative
Procedure used to derive the cla	ssification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Not classified.	

Date of issue/Date of revision	: 24/02/2025	Date of previous issue	: 15/02/2024	Version	:7 17 /1	19
OPAL 10 - All variants				Label No :	109238	

SECTION 16: Other information

SECTION 10.	Other information
Full text of abbrev	iated H statements
Н301 Т	oxic if swallowed.
H302 H	larmful if swallowed.
H310 F	atal in contact with skin.
H312 H	larmful in contact with skin.
H314 C	Causes severe skin burns and eye damage.
H315 C	Causes skin irritation.
	lay cause an allergic skin reaction.
	Causes serious eye damage.
	atal if inhaled.
	/ery toxic to aquatic life.
	/ery toxic to aquatic life with long lasting effects.
	oxic to aquatic life with long lasting effects.
EUH071 C	Corrosive to the respiratory tract.
Full text of classifi	ications [CLP/GHS]
Cute 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. 1A	SKIN SENSITISATION - Category 1A
Date of issue/ Date revision	e of : 24/02/2025
Date of previous is	ssue : 15/02/2024
Version	: 7
	OPAL 10 All variants

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 OPAL 10 - All variants : 24/02/2025 Date of previous issue