Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Ireland

SAFETY DATA SHEET



TOPAZ 20

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

1.1 Product identifier Product name : TOPAZ 20

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

Product use : La

: 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

 Emergency medical information: (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.
 Members of the public Number (8 am-10 pm): +353 (0)1 809 2166 Healthcare professional telephone Number (24hrs): +353 (0)1 809 2566

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]

Skin Sens. 1, H317

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

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

2.2 Label elements

Hazard pictograms



Signal word Hazard statements	arning 317 - May cause an allergic skin reaction.	
Precautionary statements		
Prevention	280 - Wear protective gloves. 261 - Avoid breathing vapour.	
Response	302 + P352 - IF ON SKIN: Wash with plenty of water. 333 + P313 - If skin irritation or rash occurs: Get medical advic 362 + P364 - Take off contaminated clothing and wash it befor	
Storage	ot applicable.	
Disposal	501 - Dispose of contents and container in accordance with all tional and international regulations.	local, regional,

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SECTION 2: Hazards identification

Hazardous ingredients	: Contains: adipohydrazide; 1,2-benzisothiazol-3(2H)-one; 2-methyl-2H-isothiazol-
	3-one and 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)
Supplemental label elements	: 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	:
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
✔-Methoxy 2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
Propane-1,2-diol, propoxylated	EC: 500-039-8 CAS: 25322-69-4	≤3	Acute Tox. 4, H302	ATE [Oral] = 500 mg/kg	[1]
adipohydrazide	REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8	≤0.3	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
1,2-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]
2-methyl-2H-isothiazol- 3-one	EC: 220-239-6 CAS: 2682-20-4 Index: 613-326-00-9	<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 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.11 mg/l Skin Sens. 1, H317: C \geq 0.0015% M [Acute] = 10 M [Chronic] = 1	[1]
reaction mass of: 5-chloro-	EC: 911-418-6	<0.0025	Acute Tox. 3, H301	ATE [Oral] = 53 mg/	[1]
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2-methyl-4-isothiazolin-	CAS: 55965-84-9		Acute Tox. 2, H310	kg	
3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:1)	Index: 613-167-00-5		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 [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	
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. <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 measures
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. 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	: 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.

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 sym	ptoms and effects, both acute and delayed
Over-exposure signs/s	symptoms
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 in	mediate 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	te	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. 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).
6.3 Methods and material for	со	ntainment 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. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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). 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. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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.

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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

Product/ingredient name	Exposure limit values
Methoxy 2-propanol	NAOSH (Ireland, 4/2024) Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 100 ppm. OELV 8 hours: 375 mg/m ³ . OELV 15 minutes: 150 ppm.
	OELV 15 minutes: 568 mg/m ³ .

Biological exposure indices

Product/ingredient name	Exposure indices		
No exposure indices known.			
procedures Europe assess values atmosp of expo (Workp for the docum	Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the Issessment of exposure by inhalation to chemical agents for comparison with limit alues and measurement strategy) European Standard EN 14042 (Workplace tmospheres - 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 or the measurement of chemical agents) Reference to national guidance locuments for methods for the determination of hazardous substances will also be equired.		
DNELs/DMELs			
Product/ingredient name	Result		
1-Methoxy 2-propanol	DNEL - General population - Long term - Oral 33 mg/kg bw/day <u>Effects</u> : Systemic		
	DNEL - General population - Long term - Inhalation 43.9 mg/m ³ <u>Effects</u> : Systemic		
	DNEL - General population - Long term - Dermal 78 mg/kg bw/day <u>Effects</u> : Systemic		
	DNEL - Workers - Long term - Dermal 183 mg/kg bw/day <u>Effects</u> : Systemic		
	DNEL - Workers - Long term - Inhalation 369 mg/m ³ <u>Effects</u> : Systemic		
	DNEL - Workers - Short term - Inhalation 553.5 mg/m³ <u>Effects</u> : Local		
	DNEL - Workers - Short term - Inhalation 553.5 mg/m ³ <u>Effects</u> : Systemic		
Propane-1,2-diol, propoxylated	DNEL - General population - Long term - Oral 8.3 mg/kg bw/day <u>Effects</u> : Systemic		
	DNEL - General population - Long term - Dermal		

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		8.3 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Long term - Inhalation 10 mg/m ³ <u>Effects</u> : Local
		DNEL - Workers - Long term - Inhalation 10 mg/m³ <u>Effects</u> : Local
		DNEL - Workers - Long term - Dermal 13.9 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Long term - Inhalation 29 mg/m ³ <u>Effects</u> : Systemic
		DNEL - Workers - Long term - Inhalation 98 mg/m ³ <u>Effects</u> : Systemic
adipohydrazide		DNEL - Workers - Long term - Inhalation 17.5 mg/m³ <u>Effects</u> : Systemic
1,2-benzisothiazol-3(2H)-one		DNEL - General population - Long term - Dermal 0.345 mg/kg bw/day <u>Effects</u> : 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/m ³ <u>Effects</u> : Systemic
2-methyl-2H-isothiazol-3-one		DNEL - General population - Long term - Inhalation 0.021 mg/m ³ <u>Effects</u> : Local
		DNEL - Workers - Long term - Inhalation 0.021 mg/m³ <u>Effects</u> : Local
		DNEL - General population - Long term - Oral 0.027 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Short term - Inhalation 0.043 mg/m ³ <u>Effects</u> : Local
		DNEL - Workers - Short term - Inhalation 0.043 mg/m³ <u>Effects</u> : Local
		DNEL - General population - Short term - Oral 0.053 mg/kg bw/day <u>Effects</u> : Systemic
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SECTION 8: Exposure controls/personal protection

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 - General population - Long term - Inhalation** 0.02 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Long term - Inhalation 0.02 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation 0.04 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation 0.04 mg/m³ Effects: Local

DNEL - General population - Long term - Oral 0.09 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Short term - Oral 0.11 mg/kg bw/day <u>Effects</u>: Systemic

PNECs

Not available.

8.2 Exposure controls Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne 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 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.		
	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 task being performed and the risks involved and should be approved by a specialist before handling this product.		
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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 importa 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

Appearance	
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	
	1-Methoxy 2-propanol	120.17	248.3	OECD 103
Flammability : Not avail		ilable.		

•
Lower and upper explosion
limit

: Kower: 1.2% (2-(2-ethoxyethoxy)ethanol) Upper: 23.5% (2-(2-ethoxyethoxy)ethanol)

: Closed cup: >100°C (>212°F)

Flash point Auto-ignition temperature

Ingredient name	°C	°F	Method
₽ thyldiglycol	204	399.2	
1-Methoxy 2-propanol	270	518	

Decomposition temperature	: Not available.
рН	: 7.5 to 8.5 [Conc. (% w/w): 100%]
Viscosity	: Not available.
Solubility(ies)	:
Not available.	
Solubility in water	: Not available.
Deutlithe and a fille benchmark and a start of the	Not any Baskla

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Partition coefficient: n-octanol/	4	Not applicable.
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water Vapour pressure

	Vapour Pressure 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				
1-Methoxy 2-propanol	8.5	1.1				

Relative density

: Not available.

Density	: 1 g/cm ³	
Vapour density	: Not available.	
Particle characteristics		
Median particle size	: Not applicable.	
9.2 Other information		
9.2.1 Information with rega	rd to physical hazard classes	
Explosive properties	: Not available.	
Oxidising properties	: Not available.	
9.2.2 Other safety characte	ristics	
Not applicable.		

SECTION	10:	Stability	and	reactivity
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10.1 Reactivity	No specific test data related to reactivity available for this product or its ingre-	dients.
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 oc	cur.
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 produced.	ucts

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined	in Regulation (EC) No 1272/2008
Acute toxicity	
Product/ingredient name	Result
✓Methoxy 2-propanol	Rabbit - Dermal - LD50
	13 g/kg
	Rat - Oral - LD50
	6600 mg/kg
	Toxic effects: Brain and Coverings - Other degenerative
	changes Behavioral - General anesthetic Lung, Thorax, or
	Respiration - Dyspnea
1,2-benzisothiazol-3(2H)-one	Rat - Oral - LD50
	1020 mg/kg
2-methyl-2H-isothiazol-3-one	Rat - Inhalation - LC50 Dusts and mists
-	0.11 mg/l [4 hours]
reaction mass of: 5-chloro-2-methyl-	Rat - Oral - LD50
4-isothiazolin-3-one [EC no. 247-500-7] and	53 mg/kg
2-methyl-2H-isothiazol-3-one [EC no.	Toxic effects: Behavioral - Somnolence (general depressed
220-239-6] (3:1)	activity) Behavioral - Ataxia Lung, Thorax, or Respiration -
	Respiratory depression

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

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SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
POPAZ 20	46334.6	N/A	N/A	N/A	N/A
1-Methoxy 2-propanol	6600	13000	N/A	N/A	N/A
Propane-1,2-diol, propoxylated	500	N/A	N/A	N/A	N/A
1,2-benzisothiazol-3(2H)-one	450	N/A	N/A	N/A	0.21
2-methyl-2H-isothiazol-3-one	100	300	N/A	N/A	0.11
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)	53	50	N/A	0.5	N/A
2-Methyl-1,2-benzisothiazol-3(2H)-one	175	1100	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name

Methoxy 2-propanol

Propane-1,2-diol, propoxylated

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

Result

Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg

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

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

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)

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation Product/ingredient name

Methoxy 2-propanol

Propane-1,2-diol, propoxylated

Result

Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

Rabbit - Eyes - Mild irritant Amount/concentration applied: 500 mg

SECTION 11: Toxic	cological information
Conclusion/Summary	Product] : Not available.
Respiratory corrosion/irr Not available.	<u>itation</u>
Conclusion/Summary	Product] : Not available.
Respiratory or skin sens Not available.	<u>itization</u>
Skin Conclusion/Summary [Product] : Not available.
Respiratory Conclusion/Summary	Product] : Not available.
Germ cell mutagenicity Not available.	
Conclusion/Summary	Product] : Not available.
Carcinogenicity Not available.	
Conclusion/Summary	Product] : Not available.
Reproductive toxicity Not available.	
Conclusion/Summary	Product] : Not available.
Specific target organ tox	icity (single exposure)
Product/ingredient name	
Methoxy 2-propanol	STOT SE 3, H336 (Narcotic effects)
Specific target organ tox Not available.	icity (repeated exposure)
Aspiration hazard Not available.	
Information on likely rou Not available. Potential acute health eff	
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.
	physical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.

SECTION 11: Toxicological information

Skin contact	erse symptoms may include the following: tion less	
Ingestion	specific data.	
Delayed and immediate effect	ell as chronic effects from short and long-term expo	<u>)sure</u>
<u>Short term exposure</u>		
Potential immediate effects	available.	
Potential delayed effects	available.	
Long term exposure		
Potential immediate effects	available.	
Potential delayed effects	available.	
Potential chronic health effe		
Not available.		
Conclusion/Summary [Pro	: Not available.	
General	e sensitized, a severe allergic reaction may occur when a ery low levels.	subsequently exposed
Carcinogenicity	known significant effects or critical hazards.	
Mutagenicity	known significant effects or critical hazards.	
Reproductive toxicity	nown significant effects or critical hazards.	

11.2 Information on other hazards

11.2.1 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.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity	
Product/ingredient name	Result
ropane-1,2-diol, propoxylated	Acute - LC50 - Marine water
	Fish - Inland silverside - <i>Menidia beryllina</i> Size: 40 to 100 mm
	650000 µg/l [96 hours]
	Effect: Mortality
1,2-benzisothiazol-3(2H)-one	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 - <i>Daphnia Magna</i>
	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]

SECTION 12: Ecological informatio	n
	Algae - Algae - <i>Skeletonema Costatum</i> 0.15 mg/l [72 hours]
2-methyl-2H-isothiazol-3-one	Acute - EC50 - Fresh water US EPA Daphnia - Water flea - <i>Daphnia magna</i> <u>Age</u> : <24 hours 0.18 ppm [48 hours] <u>Effect</u> : Intoxication
	Acute - LC50 - Fresh water US EPA Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> <u>Weight</u> : 0.73 g 0.07 ppm [96 hours] <u>Effect</u> : Mortality
2-Methyl-1,2-benzisothiazol-3(2H)-one	Acute - EC50 - Fresh water US EPA Daphnia - Water flea - <i>Daphnia magna</i> <u>Age</u> : <24 hours 0.92 ppm [48 hours] <u>Effect</u> : Intoxication
	Acute - EC50 - Fresh water US EPA Algae - Green algae - <i>Pseudokirchneriella subcapitata</i> 0.22 ppm [96 hours] <u>Effect</u> : Population
	Acute - LC50 - Fresh water US EPA Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> - Juvenile (Fledgling, Hatchling, Weanling) 0.24 ppm [96 hours] <u>Effect</u> : Mortality
	Chronic - NOEC US EPA Fish - Fathead minnow - <i>Pimephales promelas</i> 0.16 ppm [32 days]
Conclusion/Summary [Product] : Not availab	ble.
12.2 Persistence and degradability	
Product/ingredient name	Result

Product/ingredient name

7,2-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	LogP _{ow}	BCF	Potential
Methoxy 2-propanol	<1	-	Low
Propane-1,2-diol, propoxylated	-0.68 to 0.01	-	Low
1,2-benzisothiazol-3(2H)-one	-	3.2	Low

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SECTION 12: Ecological information

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
✓Methoxy 2-propanol	1.02	10.447
adipohydrazide	1.74	55.2165
1,2-benzisothiazol-3(2H)-one	1.86	73.142
2-methyl-2H-isothiazol-3-one	1.74	54.9187
2-Methyl-1,2-benzisothiazol-3(2H)-one	1.72	52.5063

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	М	Т	vPvM	vP	٧M
Methoxy 2-propanol	No	No	No	No	No	No	No
Propane-1,2-diol, propoxylated	No	No	No	No	No	No	No
adipohydrazide	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
2-methyl-2H-isothiazol-3-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
Mobility	: Not av	ailable.			I		

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
Methoxy 2-propanol	No	No	No	No	No	No	No
Propane-1,2-diol, propoxylated	No	No	No	No	No	No	No
adipohydrazide	No	No	No	No	No	No	No
I,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
-methyl-2H-isothiazol-3-one	No	No	No	No	No	No	No
eaction 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	No	No	No	No	No
/ -Methyl-1,2-benzisothiazol- b(2H)-one	No	No	No	No	No	No	No
Regulation (EC) No. 1272/20	08 [CLP]						
Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
-Methoxy 2-propanol	No	No	No	No	No	No	No
Propane-1,2-diol, propoxylated	No	No	No	No	No	No	No
adipohydrazide	No	No	No	No	No	No	No
,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
e-methyl-2H-isothiazol-3-one	No	No	No	No	No	No	No
eaction 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	No	No	No	No	No
1)							

2-Methyl-1,2-benzisothiazol- 3(2H)-one		No	No	No	No	No	No
Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP]	3	The produc	ct does not r	neet the crite	eria to be coi	nsidered as a	PBT or vPvB.
12.6 Endocrine disrupting prope Not available.	ties						
Conclusion/Summary [Produc	:t] :		properties a	ccording to the		t out in either	aving endocrine Regulation (E0

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. 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 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.

SECTION 14: Transport information

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 user the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO

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

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

None of the components are listed.

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

substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]	
POPAZ 20	≥90	3	
Labelling :	I		
Other EU regulations			
Industrial emissions : Not listed (integrated pollution prevention and control) - Air			
Industrial emissions : Not listed (integrated pollution prevention and control) - Water			
Explosive precursors : Not applied	cable.		
Ozone depleting substances (EU 2024/ Not listed.	<u>590)</u>		
Prior Informed Consent (PIC) (649/2012 Not listed.	<u>?/EU)</u>		
Persistent Organic Pollutants Not listed.			
Seveso Directive			
This product is not controlled under the Se	eveso Directive	2.	
International regulations			
Chemical Weapon Convention List Sche	dules I, II & III	Chemicals	
Not listed.			
Montreal Protocol			
Not listed.			
Stockholm Convention on Persistent Or	ganic Polluta	<u>nts</u>	
Not listed.			
Rotterdam Convention on Prior Informe	d Consent (Pl	<u>C)</u>	
Not listed.			
UNECE Aarhus Protocol on POPs and H	eavy Metals		
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SECTION 15: Regulatory information

Not listed.

15.2 Chemical safety	
assessment	

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

SECTION 16: Other information

Indicates information that	t has changed from previously issued version.
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
-	1272/2008]
	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 classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Sens. 1, H317	Calculation method

Full text of abbreviated H statements

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic 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.
H336	May cause drowsiness or dizziness.
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 text of classifications [CLP/GHS]

	ACUTE TOXICITY - Category 2		
	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		
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3		
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B		
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C		
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2		
Skin Sens. 1	SKIN SENSITISATION - Category 1		
Skin Sens. 1A	SKIN SENSITISATION - Category 1A		
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3		
Date of issue/ Date of	: 28/02/2025		
revision			
Date of previous issue	e : 05/10/2022		
Version	: 2		
Date of issue/Date of revisio	on : 28/02/2025 Date of previous issue : 05/10/2022 Vers	sion :2	18/20
TOPAZ 20	Label	I <mark>No :</mark> 933	300

SECTION 16: Other information

TOPAZ 20

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.