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

SAFETY DATA SHEET



TEKNOSAFE FLAME GUARD 2477-00 - CLEAR

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

1.1 Product identifier

Product name : TEKNOSAFE FLAME GUARD 2477-00 - CLEAR

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

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
 : Malta Competition and Consumer Affairs Authority (MCCAA): +356 2395 2000

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	Varning	
Hazard statements	1317 - May cause an allergic skin reaction.	
Precautionary statements		
Prevention	2280 - Wear protective gloves. 2261 - Avoid breathing vapour.	
Response	 P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attentior P362 + P364 - Take off contaminated clothing and wash it before reuse. 	n.
Storage	Not applicable.	
Disposal	P501 - Dispose of contents and container in accordance with all local, region national and international regulations.	al,
Hazardous ingredients	Contains: Formaldehyde; 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- sothiazol-3-one [EC no. 220-239-6] (3:1)	:

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SECTION 2: Hazards identification : Contains biocidal products for in-can preservation: C(M)IT/MIT (3:1). Supplemental label elements **Annex XVII - Restrictions** 2 on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles 2.3 Other hazards **Product meets the criteria** : This mixture does not contain any substances that are assessed to be a PBT or a for PBT or vPvB according vPvB. to Regulation (EC) No. 1907/2006, Annex XIII

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
CAS: 68036-98-6	≤5	Aquatic Chronic 4, H413	-	[1]
REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	≤3	Eye Irrit. 2, H319	-	[1] [2]
REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (gases)] = 700 ppm Skin Corr. 1B, H314: C \ge 25% Skin Irrit. 2, H315: 5% \le C $<$ 25% Eye Dam. 1, H318: C \ge 25% Eye Irrit. 2, H319: 5% \le C $<$ 25% Skin Sens. 1, H317: C \ge 0.2% STOT SE 3, H335: C \ge 5%	[1] [2]
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: $C \ge 0.0015\%$ M [Acute] = 10	[1]
	CAS: 68036-98-6 REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8 REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	CAS: 68036-98-6 ≤5 REACH #: ≤3 01-2119475104-44 ≤3 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8 <0.1	CAS: 68036-98-6 ≤5 Aquatic Chronic 4, H413 REACH #: ≤3 Eye Irrit. 2, H319 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8 REACH #: <0.1	Identifiers 7_{6} ClassificationLimits, M-factors and ATEsCAS: 68036-98-6 ≤ 5 Aquatic Chronic 4, H413-REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8 ≤ 3 Eye Irrit. 2, H319-REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5 < 0.1 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H311 Acute Tox. 3, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350ATE [Oral] = 100 mg/kg ATE [Inhalation (gases)] = 700 ppm Skin Corr. 1B, H314 Skin Sens. 1, H317 Skin Corr. 1B, H350EC: 220-239-6 CAS: 2682-20-4 Index: 613-326-00-9 < 0.01 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H311 Acute Tox. 3, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 1, Aquatic Chronic 1, Aquatic Chronic 1, H410ATE [Oral] = 100 mg/kg ATE [Inhalation (dust and mists)] = 0.11 mg/l Skin Sens. 1, H317: C $\geq 0.0015^{\circ}$

				M [Chronic] = 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	<0.0025	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	
			See Section 16 for the full text of the H		
			statements declared above.		

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

[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.
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 nerconal risk as without switchle training. It		
Protection of first-alders	: 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 sympton	ns and effects, both acute and delayed		
Over-exposure signs/symp	<u>toms</u>		
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 immed	ate 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: Firefigh	ting 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	ective 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".

SECTION 6: Accidental release measures			
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. 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.

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

solutions

Occupational exposure limits

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Product/ingredient name	Exposure limit values
-(2-butoxyethoxy)ethanol	EU OEL (Europe, 1/2022)
	TWA 8 hours: 67.5 mg/m ³ .
	TWA 8 hours: 10 ppm.
	STEL 15 minutes: 101.2 mg/m ³ .
	STEL 15 minutes: 15 ppm.
Formaldehyde	Ministry of Health (Malta, 4/2024) Skin sensitiser.
,	TWA 8 hours: 0.3 ppm.
	TWA 8 hours: 0.37 mg/m ³ .
	STEL 15 minutes: 0.74 mg/m ³ .
	STEL 15 minutes: 0.6 ppm.

Biological exposure indices **Exposure indices** Product/ingredient name No exposure indices known. **Recommended monitoring** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the procedures 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** Result 2-(2-butoxyethoxy)ethanol **DNEL - General population - Long term - Oral** 6.25 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Inhalation** 67.5 mg/m³ Effects: Local **DNEL - Workers - Short term - Inhalation** 101.2 mg/m³ Effects: Local **DNEL - General population - Long term - Dermal** Formaldehyde 12 µg/cm² Effects: Local **DNEL - Workers - Long term - Dermal** 37 µg/cm² Effects: Local **DNEL - General population - Long term - Inhalation** 0.1 mg/m³

0.1 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Long term - Inhalation 0.375 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation 0.75 mg/m³ Effects: Local

DNEL - General population - Long term - Inhalation 3.2 mg/m³ Effects: Systemic

SECTION 8: Exposure controls/personal protection

DNEL - General population - Long term - Oral 4.1 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Inhalation 9 mg/m³ Effects: Systemic

DNEL - General population - Long term - Dermal 102 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Dermal 240 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 0.021 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation 0.021 mg/m³ Effects: 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/m³ Effects: Local

DNEL - Workers - Short term - Inhalation 0.043 mg/m³ Effects: Local

DNEL - General population - Short term - Oral 0.053 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 0.02 mg/m³ Effects: 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 <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 0.11 mg/kg bw/day <u>Effects</u>: Systemic

2-methyl-2H-isothiazol-3-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)

PNECs

Not available.

8.2 Exposure controls		
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to a contaminants.	irborne
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 Appropriate techniques should be used to remove potentially contaminated of Contaminated work clothing should not be allowed out of the workplace. Wa contaminated clothing before reusing. Ensure that eyewash stations and sat showers are close to the workstation location.	period. clothing. ash
Eye/face protection	: Safety eyewear complying with an approved standard should be used when assessment indicates this is necessary to avoid exposure to liquid splashes, gases or dusts. If contact is possible, the following protection should be wor unless the assessment indicates a higher degree of protection: safety glass side-shields.	mists, n,
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 in this is necessary. Considering the parameters specified by the glove manufacheck during use that the gloves are still retaining their protective properties. should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consistin several substances, the protection time of the gloves cannot be accurately estimated.	ndicates acturer, It
	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 special before handling this product.	
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should approved by a specialist before handling this product.	
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that mee appropriate standard or certification. Respirators must be used according to respiratory protection program to ensure proper fitting, training, and other im aspects of use.	a
	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 legisla In some cases, fume scrubbers, filters or engineering modifications to the pr equipment will be necessary to reduce emissions to acceptable levels.	ation.

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	: Clear.
Odour	: Slight
Odour threshold	: Not available.

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SECTION 9: Physical and chemical properties

Melting point/freezing point: Not available.Initial boiling point and:boiling range

Ingredient name		°C	°F	Μ	ethod	
water		100	212			
2-(2-butoxyethoxy)ethanol		225 to 227.6	437 to 441.7	,		
Flammability	: Not	available.				
Lower and upper explosion		ver: 0.8% (2-(2-bu ver: 9.4% (2-(2-bu				
Flash point	: Clos	sed cup: >100°C	(>212°F)			
Auto-ignition temperature) <u> </u>					
Ingredient name		°C	°F	М	ethod	
2-(2-butoxyethoxy)ethanol		210	410	DI	N 51794	
Dipentaerythritol		>400	>752	EL	J A.16	
Decomposition temperatu	ire : Not	available.	i	l		
рН	: 👩 to	9 [Conc. (% w/w)): 100%]			
Viscosity	: Not	available.	-			
Solubility(ies)	:					
Not available.						
Solubility in water	: Not	available.				
Partition coefficient: n-oc water	tanol/ : Not	applicable.				
Vapour pressure	:					
	Va	pour Pressure a	t 20°C	V	apour pres	ssure at 50°C
Ingredient name	mm Hg	kPa M	ethod	mm Hg	kPa	Method
water	17.5	2.3				
2-(2-butoxyethoxy)ethanol	0.022	0.0029				
Relative density	: Not	available.				
Density	: 1.2	g/cm³				
Vapour density	: Not	available.				
Particle characteristics						
Median particle size	: Not	applicable.				
.2 Other information						
9.2.1 Information with reg	ard to physic	al hazard classe	s			
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.

SECTION 10: Stability and reactivity					
10.4 Conditions to avoid : No specific data.					
10.5 Incompatible materials : No specific data.					
	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.				
SECTION 11: Toxicological informat	lion				
11.1 Information on hazard classes as defined in R	Regulation (EC) No 1272/2008				
Acute toxicity					
Product/ingredient name	Result				
2-(2-butoxyethoxy)ethanol	Rabbit - Dermal - LD50				
	2700 mg/kg				
	Rat - Oral - LD50				
	4500 mg/kg				
	<u>Toxic effects</u> : Behavioral - Tetany Lung, Thorax, or Respiration - Dyspnea Liver - Other changes				
Formaldehyde	Rat - Oral - LD50				
,	100 mg/kg				
	Rabbit - Dermal - LD50				
	270 mg/kg				
	Rat - Inhalation - LC50 Gas. 250 ppm [4 hours]				
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- 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)
2-(2-butoxyethoxy)ethanol	4500	2700	N/A	N/A	N/A
Formaldehyde	100	300	700	N/A	N/A
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

Skin corrosion/irritation Product/ingredient name

Result

Formaldehyde	Human - Skin - Mild irritant
	Duration of treatment/exposure: 72 hours
	Amount/concentration applied: 150 ug l
	Human - Skin - Severe irritant
	Amount/concentration applied: 0.01 %
	Rabbit - Skin - Mild irritant
	Amount/concentration applied: 540 mg
	Rabbit - Skin - Moderate irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 50 mg
	Rabbit - Skin - Severe irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 2 mg
	Rabbit - Skin - Severe irritant
	Amount/concentration applied: 0.8 %
	Mouse - Skin - Moderate irritant
	Amount/concentration applied: 7 %
	Rat - Skin - Moderate irritant
	Amount/concentration applied: 7 %
reaction mass of: 5-chloro-2-methyl-	Human - Skin - Severe irritant
4-isothiazolin-3-one [EC no. 247-500-7] and	Amount/concentration applied: 0.01 %
2-methyl-2H-isothiazol-3-one [EC no.	
20-239-6] (3:1)	

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name 2-(2-butoxyethoxy)ethanol

Formaldehyde

Result

Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 20 mg

Rabbit - Eyes - Severe irritant Amount/concentration applied: 20 mg

Human - Eyes - Mild irritant Duration of treatment/exposure: 6 minutes Amount/concentration applied: 1 ppm

Rabbit - Eyes - Severe irritant <u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 750 ug

Rabbit - Eyes - Severe irritant Amount/concentration applied: 750 ug

Rabbit - Eyes - Severe irritant Amount/concentration applied: 37 %

Rabbit - Eyes - Severe irritant Amount/concentration applied: 10 mg

Mouse - Eyes - Moderate irritant Amount/concentration applied: 3 %

Conclusion/Summary [Product] : Not available.

SECTION 11: Toxicological information

Respiratory corrosion/irritation Not available. Conclusion/Summary [Product] : Not available. **Respiratory or skin sensitization** Not available. 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 toxicity (single exposure) **Product/ingredient name** Result Formaldehyde STOT SE 3, H335 (Respiratory tract irritation) Specific target organ toxicity (repeated exposure) Not available. Aspiration hazard Not available. Information on likely routes of exposure Not available. Potential acute health effects Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact : May cause an allergic skin reaction. : No known significant effects or critical hazards. Ingestion Symptoms related to the physical, chemical and toxicological characteristics : No specific data. Eye contact Inhalation : No specific data. **Skin contact** : Adverse symptoms may include the following: irritation redness Date of issue/Date of revision : 22/04/2025 Date of previous issue : 29/09/2022

SECTION 11: Toxicological information

Ingestion	No specific data.						
Delayed and immediate effects as well as chronic effects from short and long-term exposure							
Short term exposure							
Potential immediate effects	Not available.						
Potential delayed effects	Not available.						
Long term exposure							
Potential immediate effects	Not available.						
Potential delayed effects	Not available.						
Potential chronic health effe							
Not available.							
Conclusion/Summary [Pro	t] : Not available.						
General	Once sensitized, a severe allergic reaction may occur when subsequently expo to very low levels.	osed					
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

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 -(2-butoxyethoxy)ethanol

Formaldehyde

Result

Acute - LC50 - Fresh water Fish - Bluegill - *Lepomis macrochirus* <u>Size</u>: 33 to 75 mm 1300000 μg/l [96 hours] <u>Effect</u>: Mortality

Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia pulex* - Neonate <u>Age</u>: <24 hours 5800 µg/l [48 hours] <u>Effect</u>: Intoxication

Acute - EC50 - Marine water

Algae - Green algae - *Ulva pertusa* 0.788 mg/l [96 hours] <u>Effect</u>: Reproduction

Acute - LC50 - Fresh water

US EPA Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss* 1.41 ppm [96 hours] <u>Effect</u>: Mortality

Chronic - NOEC - Fresh water

Fish - Chinook salmon - *Oncorhynchus tshawytscha* - Egg 953.9 ppm [43 days] <u>Effect</u>: Mortality

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SECTION 12: Ecological information

Chronic - NOEC - Marine water

Algae - Haptophyte - *Isochrysis galbana* - Exponential growth phase <u>Age</u>: 4 to 5 days 0.005 mg/l [96 hours] <u>Effect</u>: Population

2-methyl-2H-isothiazol-3-one

Acute - EC50 - Fresh water

US EPA Daphnia - Water flea - *Daphnia magna* <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 - *Oncorhynchus mykiss* <u>Weight</u>: 0.73 g 0.07 ppm [96 hours] <u>Effect</u>: Mortality

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2-(2-butoxyethoxy)ethanol	1	-	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
2-(2-butoxyethoxy)ethanol	1.56	36.5981
2-methyl-2H-isothiazol-3-one	1.74	54.9187

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	Μ	Т	vPvM	vP	vM
midazo[4,5-d]imidazole-2,5 (1H,3H)-dione, tetrahydro-, polymer with formaldehyde, butylated	No	No	No	No	No	No	No
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
Formaldehyde	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

Mobility Conclusion/Summary : Not available.

: 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]

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Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
midazo[4,5-d]imidazole-2,5 (1H,3H)-dione, tetrahydro-, polymer with formaldehyde, butylated	No	No	No	No	No	No	No
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
Formaldehyde	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
Regulation (EC) No. 1272/20	08 [CLP]						
Product/ingredient name	PBT	Ρ	В	Т	vPvB	vP	vB
midazo[4,5-d]imidazole-2,5 (1H,3H)-dione, tetrahydro-, polymer with formaldehyde, butylated	No	No	No	No	No	No	No
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
Formaldehyde	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-	No	No	No	No	No	No	No

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

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 meth	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) <u>Packaging</u>	: 080112

SECTION 13: Disposal considerations

-	
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.

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.

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

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

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]
FEKNOSAFE FLAME GUARD 2477-00	≥90	3
2-(2-butoxyethoxy)ethanol	≤3	55 [Consumer paint]
Formaldehyde	<0.1	72

Labelling

Other EU regulations

Industrial emissions : Not listed (integrated pollution prevention and control) -Air

SECTION 15. DA aulatam infar -----

SECTION 15: Regulatory information
Industrial emissions : Not listed (integrated pollution prevention and control) - Water
Explosive precursors : Not applicable.
Ozone depleting substances (EU 2024/590) Not listed.
Prior Informed Consent (PIC) (649/2012/EU) Not listed.
Persistent Organic Pollutants Not listed.
Seveso Directive This product is not controlled under the Seveso Directive.
International regulations
Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.
Montreal Protocol Not listed.
Stockholm Convention on Persistent Organic Pollutants Not listed.
Rotterdam Convention on Prior Informed Consent (PIC) Not listed.
UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.

15.2 Chemical safety	This product contains substances for which Chemical Safety Assessments	are still
assessment	required.	

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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

SECTION 16: Other information	
H 301	Toxic if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH071	Corrosive to the respiratory tract.
Full text of cla	assifications [CLP/GHS]
Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Aquatic Acute	1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chror	ic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chror	ic 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4

Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Carc. 1B	CARCINOGENICITY - Category 1B
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
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
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revision	
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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.