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

SAFETY DATA SHEET



TEKNOSAFE FLAME GUARD 2477-00 - CLEAR

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

1.1	l Pro	duct	identi	fier

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 Ireland Limited, 52 Ballymoughan Road, Magherafelt, BT45 6HN, UK. Tel. +44 (0) 2879 301 472.

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : NHS: 111

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	: Warning
Hazard statements	: H317 - May cause an allergic skin reaction.
Precautionary statements	
Prevention	: P280 - Wear protective gloves. P261 - Avoid breathing vapour.
Response	 F302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse.
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
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- isothiazol-3-one [EC no. 220-239-6] (3:1)

Date of issue/Date of revision	: 22/04/2025	Date of previous issue	: 29/09/2022	Version	:2	1/19
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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 nersenal 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, protective 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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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
2-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020)
	TWA 8 hours: 10 ppm.
	TWA 8 hours: 67.5 mg/m ³ .
	STEL 15 minutes: 15 ppm.
	STEL 15 minutes: 101.2 mg/m ³ .
Formaldehyde	EH40/2005 WELs (United Kingdom (UK), 1/2020) Carc.
	STEL 15 minutes: 2.5 mg/m ³ .
	STEL 15 minutes: 2 ppm.
	TWA 8 hours: 2 ppm.
	TWA 8 hours: 2.5 mg/m ³ .

Biological exposure indices

Product/ingredient name	Exposure indices		
No exposure indices known.			
procedures European Star assessment of values and me atmospheres - of exposure to (Workplace ath for the measur documents for required.	European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be		
DNELs/DMELs			
Product/ingredient name	Result		
2-(2-butoxyethoxy)ethanol	DNEL - General population - Long term - Oral 6.25 mg/kg bw/day <u>Effects</u> : Systemic		
	DNEL - Workers - Long term - Inhalation 67.5 mg/m³ <u>Effects</u> : Local		
	DNEL - Workers - Short term - Inhalation 101.2 mg/m³ <u>Effects</u> : Local		
Formaldehyde	DNEL - General population - Long term - Dermal 12 μg/cm² <u>Effects</u> : Local		
	DNEL - Workers - Long term - Dermal 37 μg/cm² <u>Effects</u> : Local		
	DNEL - General population - Long term - Inhalation 0.1 mg/m ³ <u>Effects</u> : Local		
	DNEL - Workers - Long term - Inhalation 0.375 mg/m³ <u>Effects</u> : Local		
	DNEL - Workers - Short term - Inhalation 0.75 mg/m³ <u>Effects</u> : Local		
	DNEL - General population - Long term - Inhalation 3.2 mg/m ³ <u>Effects</u> : 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 <u>Effects</u>: 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 <u>Effects</u>: 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 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

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)

SECTION 8: Exposure controls/personal protection

PNECs

Not available.

8.2 Exposure controls		
Appropriate engineering controls	ood general ventilation should be sufficient to cont ontaminants.	rol worker exposure to airborne
Individual protection measure		
Hygiene measures	Vash hands, forearms and face thoroughly after ha efore eating, smoking and using the lavatory and a ppropriate techniques should be used to remove p contaminated work clothing should not be allowed c ontaminated clothing before reusing. Ensure that c howers are close to the workstation location.	t the end of the working period. otentially contaminated clothing. but of the workplace. Wash
Eye/face protection	afety eyewear complying with an approved standar ssessment indicates this is necessary to avoid exp ases or dusts. If contact is possible, the following nless the assessment indicates a higher degree of ide-shields.	osure to liquid splashes, mists, protection should be worn,
Skin protection		
Hand protection	chemical-resistant, impervious gloves complying wi e worn at all times when handling chemical produc his is necessary. Considering the parameters spec heck during use that the gloves are still retaining th hould be noted that the time to breakthrough for an ifferent for different glove manufacturers. In the ca everal substances, the protection time of the glove stimated.	ts if a risk assessment indicates ified by the glove manufacturer, eir protective properties. It by glove material may be use of mixtures, consisting of
	ecommendations : Wear suitable gloves tested to) EN374.
	8 hours (breakthrough time): Nitrile gloves. thic	kness >0.3 mm
	lot recommended polyvinyl alcohol (F	PVA) gloves
Body protection	ersonal protective equipment for the body should be eing performed and the risks involved and should be efore handling this product.	
Other skin protection	ppropriate footwear and any additional skin protect elected based on the task being performed and the pproved by a specialist before handling this produc	e risks involved and should be
Respiratory protection	ased on the hazard and potential for exposure, sel ppropriate standard or certification. Respirators m espiratory protection program to ensure proper fittir spects of use.	ust be used according to a
	ilter type (spray application): A P	
Environmental exposure controls	missions from ventilation or work process equipments nsure they comply with the requirements of enviror n some cases, fume scrubbers, filters or engineering quipment will be necessary to reduce emissions to	nmental protection legislation. Ig modifications to the process

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.
Melting point/freezing point	: Not available.

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SECTION 9: Physical and chemical properties

1

Initial boiling point and

boiling range

Ingredient name		°C	°F	Method	
water		100	212		
2-(2-butoxyethoxy)ethanol		225 to 227.6	437 to 441.7		
Flammability	: Not ava	ailable.	1		
Lower and upper explosion imit			oxyethoxy)ethanol) oxyethoxy)ethanol)		
Flash point	: Closed	cup: >100°C (>	212°F)		
Auto-ignition temperature	:				

Ingredient name		°C	°F	Method	
2-(2-butoxyethoxy)ethanol		210	410	DIN 51794	
Dipentaerythritol		>400	>752	EU A.16	
Decomposition temperature	: Not ava	ilable.			
Н	: 🛿 to 9 [0	Conc. (% w/v	v): 100%]		
/iscosity	: Not ava	ilable.			
Solubility(ies)	:				
Not available.					

Solubility in water	÷	Not available.
Partition coefficient: n-octanol/	÷	Not applicable.

11

Vapour pressure

water

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
water	17.5	2.3						
2-(2-butoxyethoxy)ethanol	0.022	0.0029						
elative density	: Not	available.				<u>.</u>		
Density	: 1.2	a/cm³						

- 11	1.2 9/011
:	Not available.
;	Not applicable.
	:

9.2 Other information

9.2.1 Information with regard to physical hazard classes

- **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.

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SECTION 10: Stability and reactivity

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined	in Regulation (EC) No 1272/2008
Acute toxicity Product/ingradiant name	Result
Product/ingredient name 2-(2-butoxyethoxy)ethanol	Result 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

Formaldehyde

Result

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

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SECTION 11: Toxicological information

Rabbit - Skin - Moderate irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 50 mg

Rabbit - Skin - Severe irritant <u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 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 %

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
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 <u>Amount/concentration applied:</u> 37 %

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

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

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

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SECTION 11: Toxicological information

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 effect	<u>s</u>	
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.
Symptoms related to the phy	/si	cal, chemical and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Delayed and immediate effect	cts	as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
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Potential immediate : Not available. effects Potential delayed effects : Not available. Potential chronic health effects . Not available. Conclusion/Summary [Product] : Not available. General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. Reproductive toxicity : No known significant effects or critical hazards.		
Potential chronic health effects Not available. Conclusion/Summary [Product] : Not available. General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards.		: Not available.
Not available. Conclusion/Summary [Product] : Not available. General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards.	Potential delayed effects	: Not available.
Conclusion/Summary [Product] : Not available.General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.	Potential chronic health eff	<u>ects</u>
General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.	Not available.	
Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.	Conclusion/Summary [Pro	duct] : Not available.
Mutagenicity : No known significant effects or critical hazards.	General	
	Carcinogenicity	: No known significant effects or critical hazards.
Reproductive toxicity : 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-(2-butoxyethoxy)ethanol		Result Acute - LC50 - Fish - Bluegill - <u>Size</u> : 33 to 75 n 1300000 μg/l [9 <u>Effect</u> : Mortality	Lepomis macrochiru nm 6 hours]	s
Formaldehyde		Acute - EC50 - Daphnia - Wate <u>Age</u> : <24 hours 5800 μg/l [48 ho <u>Effect</u> : Intoxicat	ours]	<i>x</i> - Neonate
		Acute - EC50 - Algae - Green a 0.788 mg/l [96 ł <u>Effect</u> : Reprodu	algae - <i>Ulva pertusa</i> nours]	
		Acute - LC50 - US EPA Fish - Rainbow 1.41 ppm [96 ho <u>Effect</u> : Mortality	trout,donaldson trout ours]	t - Oncorhynchus mykiss
			days]	hus tshawytscha - Egg
			s nours]	ana - Exponential growth
2-methyl-2H-isothiazol-3-one		Acute - EC50 -	Fresh water	
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SECTION 12: Ecological information

US EPA

Daphnia - Water flea - Daphnia magna Age: <24 hours 0.18 ppm [48 hours] Effect: Intoxication

Acute - LC50 - Fresh water

US EPA Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss Weight: 0.73 g 0.07 ppm [96 hours] Effect: 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	LogPow	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	РМТ	Р	М	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	: Not ava	ailable.			1		

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]

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	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
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

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 method	S
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

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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: 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 acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level 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
	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 class	ifications [CLP/GHS]	
Cute Tox. 2	ACUTE TOXICITY - Category 2	
Acute Tox. 3	ACUTE TOXICITY - Category 3	
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	
Aquatic Chronic 2		
Aquatic Chronic 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	

Notice to reader

Skin Corr. 1B

Skin Corr. 1C

Skin Sens. 1

STOT SE 3

revision

Version

Skin Sens. 1A

Date of issue/ Date of

Date of previous issue

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.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

SKIN CORROSION/IRRITATION - Category 1B

SKIN CORROSION/IRRITATION - Category 1C

SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1A

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