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 PROTECT 2458-00 - BASE 1

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

1.1 Product identifier

Product name : TEKNOSAFE FLAME PROTECT 2458-00 - BASE 1

**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	<ul> <li>▶302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> </ul>
Storage	: Not applicable.
Disposal	<ul> <li>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazardous ingredients	: Contains: 1,2-benzisothiazol-3(2H)-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)

# **SECTION 2: Hazards identification**

Supplemental label elements	:	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Contains biocidal products for in-can preservation: C(M)IT/ MIT (3:1).
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	:	None known.

not result in classification

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

3.2 Mixtures Product/ingredient name	: Mixture	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
2-(2-butoxyethoxy)ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	≤3	Eye Irrit. 2, H319	-	[1] [2]
Ammonia	REACH #: 01-2119488876-14 EC: 215-647-6 CAS: 1336-21-6 Index: 007-001-01-2	≤0.3	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400	STOT SE 3, H335: C ≥ 5% M [Acute] = 1	[1] [2]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤0.3	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
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: $C \ge 0.036\%$ M [Acute] = 1 M [Chronic] = 1	[1]
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:1)	EC: 911-418-6 CAS: 55965-84-9 Index: 613-167-00-5	<0.0025	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	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l	[1]

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

information on ingredients
Aquatic Chronic 1, H410       Skin Corr. 1C, H314: $C \ge 0.6\%$ EUH071       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. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[\*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter  $\leq$  10 µm not bound within a matrix.

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.
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 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 symptoms and effects, both acute and delayed

Over-exposure signs/sy	<u>/mptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.

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SECTION 4: First aid	
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any immedi	ate medical attention and special treatment needed
Notes to physician	<ul> <li>Freat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
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	<ul> <li>Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides</li> </ul>
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	сс	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.

# **SECTION 6: Accidental release measures**

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 solutions	: Not available.

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

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient na	me		Exposure limit	values		
2-(2-butoxyethoxy)ethanol			(United Kingdom (I	JK), 1/2020)		
		TWA 8 hours: 10				
		TWA 8 hours: 67				
		STEL 15 minutes	: 15 ppm.			
		STEL 15 minutes	: 101.2 mg/m³.			
Ammonia		EH40/2005 WELs (United Kingdom (UK), 1/2020) [ammonia]				
		STEL 15 minutes	: 25 mg/m <sup>3</sup> . Form: ar	hydrous.		
		STEL 15 minutes	: 35 ppm. Form: anh	ydrous.		
		TWA 8 hours: 25	ppm. Form: anhydro	us.		
		TWA 8 hours: 18	mg/m <sup>3</sup> . Form: anhyd	rous.		
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2-Butoxyethanol		EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed
		through skin. STEL 15 minutes: 50 ppm.
		TWA 8 hours: 25 ppm.
		STEL 15 minutes: 246 mg/m <sup>3</sup> .
		TWA 8 hours: 123 mg/m <sup>3</sup> .
Biological exposure indices		
Product/ingredient		Exposure indices
∠-Butoxyethanol		EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.
Recommended monitoring procedures	European Stand assessment of e values and mea atmospheres - C of exposure to c (Workplace atm for the measure	Id be made to monitoring standards, such as the following: lard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit surement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 ospheres - General requirements for the performance of procedure ment of chemical agents) Reference to national guidance nethods for the determination of hazardous substances will also be
DNELs/DMELs		
Product/ingredient name		Result
Manium dioxide		<b>DNEL - General population - Long term - Inhalation</b> 28 µg/m³ <u>Effects</u> : Local
		<b>DNEL - Workers - Long term - Inhalation</b> 170 μg/m³ <u>Effects</u> : Local
2-(2-butoxyethoxy)ethanol		<b>DNEL - General population - Long term - Oral</b> 6.25 mg/kg bw/day <u>Effects</u> : Systemic
		<b>DNEL - Workers - Long term - Inhalation</b> 67.5 mg/m³ <u>Effects</u> : Local
		DNEL - Workers - Short term - Inhalation 101.2 mg/m³ <u>Effects</u> : Local
2-Butoxyethanol		<b>DNEL - General population - Long term - Oral</b> 6.3 mg/kg bw/day <u>Effects</u> : Systemic
		<b>DNEL - General population - Short term - Oral</b> 26.7 mg/kg bw/day <u>Effects</u> : Systemic
		<b>DNEL - General population - Long term - Inhalation</b> 59 mg/m <sup>3</sup> <u>Effects</u> : Systemic
		<b>DNEL - Workers - Long term - Inhalation</b> 98 mg/m <sup>3</sup> <u>Effects</u> : Systemic
		<b>DNEL - General population - Short term - Inhalation</b> 147 mg/m <sup>3</sup> Effects: Local

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

**DNEL - Workers - Short term - Inhalation** 246 mg/m<sup>3</sup> <u>Effects</u>: Local

**DNEL - General population - Short term - Inhalation** 426 mg/m<sup>3</sup> <u>Effects</u>: Systemic

**DNEL - Workers - Short term - Inhalation** 1091 mg/m<sup>3</sup> <u>Effects</u>: Systemic

**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<sup>3</sup> <u>Effects</u>: Systemic

**DNEL - Workers - Long term - Inhalation** 6.81 mg/m<sup>3</sup> <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 0.02 mg/m<sup>3</sup> <u>Effects</u>: Local

**DNEL - Workers - Long term - Inhalation** 0.02 mg/m<sup>3</sup> <u>Effects</u>: Local

**DNEL - General population - Short term - Inhalation** 0.04 mg/m<sup>3</sup> <u>Effects</u>: Local

DNEL - Workers - Short term - Inhalation 0.04 mg/m<sup>3</sup> 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 measures** 

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

reaction mass of: 5-chloro-2-methyl-

2-methyl-2H-isothiazol-3-one [EC no.

220-239-6] (3:1)

4-isothiazolin-3-one [EC no. 247-500-7] and

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

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	Filter type (spray application): A P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

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

## 9.1 Information on basic physical and chemical properties

Appearance	
Physical state	: Liquid.
Colour	: White.
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	:
In much and many a	80

limit

Ingredient name		°C	°F	Method
water		100	212	
2-(2-butoxyethoxy)ethanol		225 to 227.6	437 to 441.7	
Flammability	: Not available.			
Lower and upper explosion	: vwer: 0.8% (2-(2-butoxyethoxy)ethanol)			

Upper: 9.4% (2-(2-butoxyethoxy)ethanol)

# **SECTION 9: Physical and chemical properties**

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#### **Flash point**

# : Closed cup: >100°C (>212°F)

Auto-i	anition	temperature	
Auto I	ginuon	tomporatare	

#### ŝ °C Ingredient name °F **Method** DIN 51794 2-(2-butoxyethoxy)ethanol 210 410 2,2,4-trimethylpentane-1,3-diol isobutyrate 393 739.4

· · · · · · · · · · · · · · · · · · ·				
Decomposition temperature	: Not ava	ilable.		
рН	: 🔗 to 9 [0	Conc. (% w/w): 100	%]	
Viscosity	: Not ava	ilable.		
Solubility(ies)	:			
Not available.				
Solubility in water	: Not ava	ilable.		
Partition coefficient: n-octanol/ water	: Not app	licable.		

#### Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
water	17.5	2.3						
2-(2-butoxyethoxy)ethanol	0.022	0.0029						

÷	Not available.
:	1.2 g/cm³
;	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.
10.5 Incompatible materials	:	No specific data.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

**Product/ingredient name** 

2-(2-butoxyethoxy)ethanol

#### Result

Rabbit - Dermal - LD50 2700 mg/kg

- Dyspnea Liver - Other changes

Rat - Oral - LD50 4500 mg/kg

Rat - Oral - LD50

Ammonia

350 mg/kg <u>Toxic effects</u>: Gastrointestinal - Other changes Liver - Other changes Kidney, Ureter, and Bladder - Other changes

Toxic effects: Behavioral - Tetany Lung, Thorax, or Respiration

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

Rat - Oral - LD50 1020 mg/kg

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) Rat - Oral - LD50 53 mg/kg <u>Toxic effects</u>: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration -Respiratory depression

#### Conclusion/Summary [Product] : Not available.

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
KNOSAFE FLAME PROTECT 2458-00 2-(2-butoxyethoxy)ethanol 2-Butoxyethanol 1,2-benzisothiazol-3(2H)-one reaction mass of: 5-chloro-2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	N/A 4500 1200 450 53	N/A 2700 N/A N/A 50	N/A N/A N/A N/A N/A	3000.0 N/A 3 N/A 0.5	N/A N/A 0.21 N/A

Skin corrosion/irritation

Product/ingredient name

**ti**tanium dioxide

2-Butoxyethanol

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

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

# Conclusion/Summary [Product] : Not available.

Result

Human - Skin - Mild irritant Duration of treatment/exposure: 72 hours Amount/concentration applied: 300 ug l

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 %

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roduct/ingredient name	Result				
(2-butoxyethoxy)ethanol	Rabbit - Eyes - Moderate irritant				
	Duration of treatment/exposure: 24 hours				
	Amount/concentration applied: 20 mg				
	Rabbit - Eyes - Severe irritant				
	Amount/concentration applied: 20 mg				
mmonio	Babbit Europ Source invitant				
mmonia	Rabbit - Eyes - Severe irritant Amount/concentration applied: 250 ug				
	<u>Anouni concentration applied</u> . 200 dg				
	Rabbit - Eyes - Severe irritant				
	Amount/concentration applied: 44 ug				
	Rabbit - Eyes - Severe irritant				
	Duration of treatment/exposure: 0.5 minutes				
	Amount/concentration applied: 1 mg				
Putowethenel	Dabbit Even Moderate invitent				
-Butoxyethanol	Rabbit - Eyes - Moderate irritant Duration of treatment/exposure: 24 hours				
	Amount/concentration applied: 100 mg				
	v				
	Rabbit - Eyes - Severe irritant				
	Amount/concentration applied: 100 mg				
Conclusion/Summary [Product] : Not avail	lable.				
ot available.					
Conclusion/Summary [Product] : Not avail	lable.				
espiratory or skin sensitization					
ot available.					
kin					
Conclusion/Summary [Product] : Not avail	lable.				
espiratory					
Conclusion/Summary [Product] : Not avail	lable.				
erm cell mutagenicity					
ot available.					
Conclusion/Summary [Product] : Not avail	lable.				
arcinogenicity					
	d of this product arises when respirable dust is inhaled in quantiti				
eading to significant impairment of particle cleara ot available.	ance mechanisms in the lung.				

Conclusion/Summary [Product] : Not available.

# Reproductive toxicity

Not available.

# **SECTION 11: Toxicological information**

Conclusion/Summary [Product] : Not available.

Product/ingredient name	<b>Result</b> STOT SE 3, H335 (Respiratory tract irritation)
Specific target organ toxicit	<u>r (repeated exposure)</u>
Not available.	
Aspiration hazard	
Not available.	
Information on likely routes	of exposure
Not available.	
Potential acute health effect	<u>3</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 ph	vsical, 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.
-	ts as well as chronic effects from short and long-term exposure
Short term exposure	is as well as chronic effects from short and long-term exposure
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>cts</u>
Not available.	
Conclusion/Summary [Pro	duct] : Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently expose 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.
1.2 Information on other haz	
11.2.1 Endocrine disrupting	properties
Not available.	
Conclusion/Summary [Pro	duct] : The product does not meet the criteria to be considered as having endocrir disrupting properties according to the criteria set out in either Regulation (E 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	<b>Result</b> <b>Acute - LC50 - Marine water</b> Fish - Mummichog - <i>Fundulus heteroclitus</i> >1000000 μg/l [96 hours] <u>Effect</u> : Mortality
	<b>Acute - LC50 - Fresh water</b> Crustaceans - Water flea - <i>Ceriodaphnia dubia</i> - Neonate <u>Age</u> : <24 hours 3 mg/l [48 hours] <u>Effect</u> : Mortality
2-(2-butoxyethoxy)ethanol	<b>Acute - LC50 - Fresh water</b> Fish - Bluegill - <i>Lepomis macrochirus</i> <u>Size</u> : 33 to 75 mm 1300000 μg/l [96 hours] <u>Effect</u> : Mortality
Ammonia	<b>Acute - LC50 - Fresh water</b> Fish - Western mosquitofish - <i>Gambusia affinis</i> - Adult 37 ppm [96 hours] <u>Effect</u> : Mortality
2-Butoxyethanol	<b>Acute - LC50 - Marine water</b> Fish - Inland silverside - <i>Menidia beryllina</i> <u>Size</u> : 40 to 100 mm 1250000 μg/l [96 hours] <u>Effect</u> : Mortality
	<b>Acute - LC50 - Marine water</b> Crustaceans - Common shrimp, sand shrimp - <i>Crangon</i> <i>crangon</i> 800000 μg/l [48 hours] <u>Effect</u> : Mortality
1,2-benzisothiazol-3(2H)-one	Acute - LC50 - Fresh water OECD [Fish, Acute Toxicity Test] Fish - Trout - <i>Onorhynchus Mykiss</i> 1.9 mg/l [96 hours]
	<b>Acute - EC50</b> OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test] Daphnia - Daphnia - <i>Daphnia Magna</i> 3.7 mg/l [48 hours]
	<b>Acute - EC50 - Marine water</b> OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - <i>Skeletonema Costatum</i> 0.36 mg/l [72 hours]
	<b>Acute - NOEC - Marine water</b> OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - <i>Skeletonema Costatum</i> 0.15 mg/l [72 hours]
Conclusion/Summary [Product]	: Not available.
12.2 Persistence and degradability	
Product/ingradiant name	Pocult

# Product/ingredient name

7,2-benzisothiazol-3(2H)-one

# Result

EU 24% [28 days]

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# **SECTION 12: Ecological information**

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability		
7.2-benzisothiazol-3(2H)-one     -     Inherent					
12.3 Bioaccumulative potent	ial				
Product/ingredient name	LogPow	BCF	Potential		
2-(2-butoxyethoxy)ethanol	1	-	Low		

-3.2

#### 12.4 Mobility in soil

#### Soil/water partition coefficient

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

Product/ingredient name	logKoc	Кос
<ul> <li>2-(2-butoxyethoxy)ethanol</li> <li>2-Butoxyethanol</li> <li>1,2-benzisothiazol-3(2H)-one</li> </ul>	1.56 1.83 1.86	36.5981 67.3685 73.142

# Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	Μ	т	vPvM	vP	٧M
titanium dioxide	No	No	No	No	No	No	No
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No

Mobility Conclusion/Summary : Not available.

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

Low

## 12.5 Results of PBT and vPvB assessment Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
titanium dioxide	No	No	No	No	No	No	No
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
Ammonia	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No

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

Product/ingredient name	PBT	Ρ	В	т	vPvB	vP	vB
itanium dioxide	No	No	No	No	No	No	No
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
Ammonia	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
eaction mass of: 5-chloro- 2-methyl-4-isothiazolin-	No	No	No	No	No	No	No
B-one [EC no. 247-500-7]							
and 2-methyl-2H-isothiazol-							
B-one [EC no. 220-239-6] (3:							

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

#### **12.6 Endocrine disrupting properties**

Not available.

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Conclusion/Summary [Product]
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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 methods**

P	0	łn	ct
	U	14	υı

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	-	-	-	-
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SECTION 14: Transport information				
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]
TEKNOSAFE FLAME PROTECT 2458-00 2-(2-butoxyethoxy)ethanol	≥90 ≤3	3 55 [Consumer paint]
Labelling :		
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 applicab	le.	
Ozone depleting substances (EU 2024/59	<u>D)</u>	
Not listed.		
Prior Informed Consent (PIC) (649/2012/E	U)	
Not listed.		
Persistent Organic Pollutants Not listed.		
Seveso Directive		
This product is not controlled under the Seve	so Direct	tive.
International regulations		

# **SECTION 15: Regulatory information**

## 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.

1	5.2	Chemica	al safety
a	sse	ssment	

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

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level 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</li> </ul>
	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

<b>⊮</b> 301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal 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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

# **SECTION 16: Other information**

Acute Tox. 2	ACUTE TOXICITY - Category 2	
Acute Tox. 3	ACUTE TOXICITY - Category 3	
Acute Tox. 4	ACUTE TOXICITY - Category 4	
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	
Carc. 2	CARCINOGENICITY - Category 2	
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
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	
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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.