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

SAFETY DATA SHEET



TEKNOSAFE FLAME PROTECT 2408-00 - All variants

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

1.1 Product identifier	
Product name	: TEKNOSAFE FLAME

: TEKNOSAFE FLAME PROTECT 2408-00 - All variants

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Sens. 1, H317

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

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

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

2.2 Label elements

Hazard pictograms



Signal word	:	Warning
Hazard statements	:	H317 - May cause an allergic skin reaction.
Precautionary statements		
Prevention	:	P280 - Wear protective gloves. P261 - 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 attention. P362 + P364 - Take off contaminated clothing and wash it before reuse.
Storage	:	Not applicable.
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

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SECTION 2: Hazards identification

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)
Supplemental label elements	: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
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-	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	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg	[1]

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SECTION 3: Composition/information on ingredients

SECTION 5. Composition/inte	ination on ingredients
3-one [EC no. 220-239-6] (3:1)	Eye Dam. 1, H318 ATE [Inhalation Skin Sens. 1A, H317 (vapours)] = 0.5 Aquatic Acute 1, H400 mg/l Aquatic Chronic 1, Skin Corr. 1C, H410 H314: $C \ge 0.6\%$ EUH071 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

[*] 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.
	ns and effects, both acute and delayed
Over-exposure signs/sym	<u>otoms</u>
Eye contact	: No specific data.

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Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any immedi	iate medical attention and special treatment needed
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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	from 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 metal oxide/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 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 fo chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. For non-emergency Evacuate surrounding areas. Keep unnecessary and unprotected personnel from personnel 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** : 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 precautions pollution (sewers, waterways, soil or air). 6.3 Methods and material for containment and cleaning up **Small spill**

all 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 spill 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 name	e		Exposure limit v	values		
2-(2-butoxyethoxy)ethanol		 NAOSH (Ireland, 4/2024) Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 10 ppm. OELV 15 minutes: 101.2 mg/m³. OELV 8 hours: 67.5 mg/m³. OELV 15 minutes: 15 ppm. 				
Ammonia		NAOSH (Ireland, 4	/ 2024) [ammonia, a al Exposure Limit Va ppm.		es: El	J
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SECTION 8: Exposure controls/personal protection			
2-Butoxyethanol	OELV 15 minutes: 50 ppm. OELV 15 minutes: 36 mg/m ³ . NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU		
	derived Occupational Exposure Limit Values OELV 8 hours: 20 ppm. OELV 8 hours: 98 mg/m ³ . OELV 15 minutes: 50 ppm. OELV 15 minutes: 246 mg/m ³ .		

Biological exposure indices

Product/ingredient name	Exposure indices
2-Butoxyethanol	NAOSH (Ireland, 1/2011) BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
procedures European S assessment values and r atmosphere of exposure (Workplace for the meas	whould be made to monitoring standards, such as the following: tandard EN 689 (Workplace atmospheres - Guidance for the c of exposure by inhalation to chemical agents for comparison with limit measurement strategy) European Standard EN 14042 (Workplace s - Guide for the application and use of procedures for the assessment to chemical and biological agents) European Standard EN 482 atmospheres - General requirements for the performance of procedures surement of chemical agents) Reference to national guidance for methods for the determination of hazardous substances will also be
DNELs/DMELs	
Product/ingredient name	Result
titanium dioxide	DNEL - General population - Long term - Inhalation 28 μg/m³ <u>Effects</u> : Local
	DNEL - Workers - Long term - Inhalation 170 μg/m³ <u>Effects</u> : Local
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
2-Butoxyethanol	DNEL - General population - Long term - Oral 6.3 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Short term - Oral 26.7 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 59 mg/m ³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 98 mg/m³ <u>Effects</u> : Systemic
	DNEL - General population - Short term - Inhalation

SECTION 6: Exposure controls/perso	onal protection
	147 mg/m³ <u>Effects</u> : Local
	DNEL - Workers - Short term - Inhalation 246 mg/m³ <u>Effects</u> : Local
	DNEL - General population - Short term - Inhalation 426 mg/m ³ Effects: Systemic
	DNEL - Workers - Short term - Inhalation 1091 mg/m³ <u>Effects</u> : Systemic
1,2-benzisothiazol-3(2H)-one	DNEL - General population - Long term - Dermal 0.345 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 0.966 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 1.2 mg/m ³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 6.81 mg/m³ <u>Effects</u> : Systemic
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	DNEL - General population - Long term - Inhalation 0.02 mg/m ³ Effects: Local
	DNEL - Workers - Long term - Inhalation 0.02 mg/m³ <u>Effects</u> : Local
	DNEL - General population - Short term - Inhalation 0.04 mg/m³ <u>Effects</u> : 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

PNECs

Not available.

8.2	Exp	oos	ure	cont	tro	S
						· · ·

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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SECTION 8: Exposure controls/personal protection

•		• •
Individual protection measu	res	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
		Recommendations : Wear suitable gloves tested to EN374.
		> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm
		Not recommended polyvinyl alcohol (PVA) gloves
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other 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	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	÷

Ingredient name		°C	°F	Method
water		100	212	
2-(2-butoxyethoxy)ethan	ol	225 to 227.6	437 to 441.7	

Flammability

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: Not available.

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SECTION 9: Physical	and che	mical pr	operti	es			
Lower and upper explosion limit		r: Not applic r: Not applic					
Flash point : Closed cup: >100°C (>212°F)							
Auto-ignition temperature	:						
Ingredient name		°C		°F	Μ	ethod	
2-(2-butoxyethoxy)ethanol		210		410	DI	N 51794	
2,2,4-trimethylpentane-1,3-diol isob	outyrate	393		739.4			
Decomposition temperature	• Not a	vailable.			I		
pH) [Conc. (% v	w/w)· 1009	%1			
Viscosity		vailable.		,0]			
Solubility(ies)							
Not available.							
Solubility in water	: Not a	vailable.					
Partition coefficient: n-octai water	nol/ : Not a	pplicable.					
Vapour pressure	:						
	Vap	our Pressu	re at 20°C	;	V	apour pres	ssure at 50°C
Ingredient name	mm Hg	kPa	Method		mm Hg	kPa	Method
water	17.5	2.3					
2-(2-butoxyethoxy)ethanol	0.022	0.0029					
Relative density	: Not a	vailable.	4				
Density	: 1.2 g/cm ³						
Vapour density	: Not a	vailable.					
Particle characteristics							
Median particle size	: Not a	pplicable.					
 9.2 Other information 9.2.1 Information with regare Explosive properties Oxidising properties 9.2.2 Other safety charactere Not applicable. 	: Not a : Not a istics	vailable. vailable.	ISSES				
SECTION 10: Stabilit	y and rea	activity					
10.1 Reactivity	: No specif	fic test data ı	related to	reactivity	available fo	or this produ	uct or its ingredients.
10.2 Chemical stability	: The prod	uct is stable.					
10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions							
10.4 Conditions to avoid	: No specific data.						
10.5 Incompatible materials	: No specif	fic data.					
10.6 Hazardous decomposition products		rmal condition ot be produce		rage and i	use, hazaro	lous decom	position products

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

Ammonia

Rat - Oral - LD50 350 mg/kg Toxic effects: 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)
TEKNOSAFE FLAME PROTECT 2408-00 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 Result titanium dioxide Human - Skin - Mild irritant Duration of treatment/exposure: 72 hours Amount/concentration applied: 300 ug I 2-Butoxyethanol Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg Human - Skin - Mild irritant 1,2-benzisothiazol-3(2H)-one Duration of treatment/exposure: 48 hours Amount/concentration applied: 5 % Human - Skin - Severe irritant reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and Amount/concentration applied: 0.01 % 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Conclusion/Summary [Product] : Not available.

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SECTION 11: Toxicological info Serious eye damage/eye irritation	
Product/ingredient name	Result
2-(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
Ammonia	Rabbit - Eyes - Severe irritant
	Amount/concentration applied: 250 ug
	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
2-Butoxyethanol	Rabbit - Eyes - Moderate irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 100 mg
	Rabbit - Eyes - Severe irritant
	Amount/concentration applied: 100 mg
	<u></u>
Conclusion/Summary [Product] : Not	available.
Respiratory corrosion/irritation Not available.	
Not available.	
Conclusion/Summary [Product] : Not	available.
Peopiratory or skip consistration	
Respiratory or skin sensitization Not available.	
Not available.	
Ohio	
Skin	even lie hete
Conclusion/Summary [Product] : Not	avalladie.
Desninstern	
Respiratory	even lie hete
Conclusion/Summary [Product] : Not	avalladie.
Germ cell mutagenicity	
Not available.	
Conclusion/Summary [Product] : Not	available.
Carcinogenicity	
	parand of this product arises when respirable dust is inheled in suspitivish
leading to significant impairment of particle of	nazard of this product arises when respirable dust is inhaled in quantities clearance mechanisms in the lung
Not available.	
Conclusion/Summary [Product] : Not	

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

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SECTION 11: Toxicological information

Conclusion/Summary [Product] : Not available.

Product/ingredient name		Result
Ammonia		STOT SE 3, H335 (Respiratory tract irritation)
<u>Specific target organ toxicit</u> Not available.	ty (repeated ex	<u>kposure)</u>
Aspiration hazard Not available.		
Information on likely routes	of exposure	
Not available.		
Potential acute health effec	<u>ts</u>	
Eye contact	: No known	significant effects or critical hazards.
Inhalation	: No known	significant effects or critical hazards.
Skin contact	: May cause	e an allergic skin reaction.
Ingestion	: No known	significant effects or critical hazards.
Symptoms related to the ph	nysical, chemio	cal and toxicological characteristics
Eye contact	: No specifi	c data.
Inhalation	: No specifi	c data.
Skin contact	: Adverse s irritation redness	ymptoms may include the following:
Ingestion	: No specifi	c data.
Delayed and immediate effe	ects as well as	chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	: Not availa	ble.
Potential delayed effects	: Not availa	ble.
Long term exposure		
Potential immediate effects	: Not availa	ble.
Potential delayed effects	: Not availa	ble.
Potential chronic health effe	<u>ects</u>	
Not available.		
Conclusion/Summary [Pro	oduct] : Not	available.
General	: Once sens to very low	sitized, a severe allergic reaction may occur when subsequently exposed v levels.
Carcinogenicity		significant effects or critical hazards.
Mutagenicity		significant effects or critical hazards.
Reproductive toxicity	: No known	significant effects or critical hazards.
1.2 Information on other ha	zarde	
11.2.1 Endocrine disrupting		
Not available.	, properties	
Conclusion/Summary [Pro	disr	e product does not meet the criteria to be considered as having endocrine upting properties according to the criteria set out in either Regulation (EC 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 titanium dioxide	Result Acute - LC50 - Marine water Fish - Mummichog - <i>Fundulus heteroclitus</i> >1000000 μg/l [96 hours] <u>Effect</u> : Mortality
	Acute - LC50 - Fresh water 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	Acute - LC50 - Fresh water Fish - Bluegill - <i>Lepomis macrochirus</i> <u>Size</u> : 33 to 75 mm 1300000 μg/l [96 hours] <u>Effect</u> : Mortality
Ammonia	Acute - LC50 - Fresh water Fish - Western mosquitofish - <i>Gambusia affinis</i> - Adult 37 ppm [96 hours] <u>Effect</u> : Mortality
2-Butoxyethanol	Acute - LC50 - Marine water Fish - Inland silverside - <i>Menidia beryllina</i> <u>Size</u> : 40 to 100 mm 1250000 μg/l [96 hours] <u>Effect</u> : Mortality
	Acute - LC50 - Marine water 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]
	Acute - EC50 OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test] Daphnia - Daphnia - <i>Daphnia Magna</i> 3.7 mg/l [48 hours]
	Acute - EC50 - Marine water OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - <i>Skeletonema Costatum</i> 0.36 mg/l [72 hours]
	Acute - NOEC - Marine water 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/ingredient name

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

Result

EU 24% [28 days]

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Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
1,2-benzisothiazol-3(2H)-one	-	-	Inherent
12.3 Bioaccumulative potenti	al		•
Product/ingredient name	LogPow	BCF	Potential
2-(2-butoxyethoxy)ethanol 2-Butoxyethanol	1 0.81	-	Low Low

-3.2

Low

12.4 Mobility in soil

Soil/water partition coefficient

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

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

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	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-	No	No	No	No	No	No	No
3-one [EC no. 247-500-7]							
and 2-methyl-2H-isothiazol-							
3-one [EC no. 220-239-6] (3: 1)							

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 methods

_				
D	ro	А		ct.
	10	u	u	υL

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
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 inform	ation		
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 2408-00 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 applicable	le.		
Ozone depleting substances (EU 2024/59	<u>))</u>		
Not listed.			
Prior Informed Consent (PIC) (649/2012/E	u		
Not listed.	-1		
Persistent Organic Pollutants Not listed.			
Seveso Directive			
This product is not controlled under the Seve	so Direct	tive.	
nternational 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	Chemi	cal	safety
a	sse	ssmen	t	

: 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	 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 VDvB = Vonv Derivator and Vonv Bioaccumulative
	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

H301	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

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.

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