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

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 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: In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Skin Sens. 1, H317

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

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

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

2.2 Label elements

Hazard pictograms



Signal word Hazard statements	Warning H317 - May cause an allergic skin reaction.	
Precautionary statements		
Prevention	P280 - Wear protective gloves. P261 - Avoid breathing vapour.	
Response	 P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. 	
Storage	Not applicable.	
Disposal	 P501 - Dispose of contents and container in accordance with all local, regiona national and international regulations. 	ıl,
Hazardous ingredients	 Contains: 1,2-benzisothiazol-3(2H)-one and reaction mass of: 5-chloro-2-meth 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC 220-239-6] (3:1) 	

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SECTION 2: Hazards identification

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.	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

1907/2006, Annex XIIIOther hazards which do: None known.not result in classification

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	<0.05	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	ATE [Oral] = 1020 mg/kg Skin Sens. 1, H317: C ≥ 0.05% M [Acute] = 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)	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: $C \ge 0.6\%$	[1]		
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SECTION 3: Composition/information on ingredients				

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.

Туре

[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. 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 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

<u>Over-exposure signs/s</u>	<u>ymptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness

SECTION 4: First aid	l measures
Ingestion	: No specific data.
4.3 Indication of any immedi	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 phosphorus oxides 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 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: Accider	ital release measures
6.1 Personal precautions, pr	otective 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 inadequate. Put on appropriate per		
For emergency responders	:	If specialised clothing is required to information in Section 8 on suitable	o deal with the spillage, take	note of any
		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 containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop
up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry
material and place in an appropriate waste disposal container. Dispose of via a
licensed waste disposal contractor.

SECTION 6: Accidental release measures

SECTION 0. Accide	
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. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
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.

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	Exposure limit values				
2-(2-butoxyethoxy)ethanol	Regulation on Limit Values - MAC (Austria, 4/2021).	Regulation on Limit Values - MAC (Austria, 4/2021).			
	TWA: 10 ppm 8 hours.				
	TWA: 67.5 mg/m ³ 8 hours.				
	PEAK: 15 ppm, 4 times per shift, 15 minutes.				
	PEAK: 101.2 mg/m ³ , 4 times per shift, 15 minutes.				
Ammonia	Regulation on Limit Values - MAC (Austria, 4/2021). [am	monia]			
	TWA: 20 ppm 8 hours.				
	TWA: 14 mg/m³ 8 hours.				
	PEAK: 50 ppm, 4 times per shift, 15 minutes.				
	PEAK: 36 mg/m ³ , 4 times per shift, 15 minutes.				
2-Butoxyethanol	Regulation on Limit Values - MAC (Austria, 4/2021). Abs	orbed			
Date of issue/Date of revision : 06/11/202	3 Date of previous issue : 13/02/2023 Version : 1.0	2 5/27			
TEKNOSAFE FLAME PROTECT 2408-00 - /	All variants Label No :	61			

TWX: 20 ppm 8 hours. reaction mass of: 5-chloro-2-methyl-4-4/stothiazolino-3-one [EC no. 247-500-7] and 2-methyl-24-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-24-isothiazol-3-one (EC no. 247-500-7] and 2-methyl-24-isothiazol-3-one (mixture in the ratio 3:1)] Skin sensitiser. 2/2-2-butoxyethoxy)ethanol 2-methyl-24-isothiazol-3-one (mixture in the ratio 3:1)] Skin sensitiser. 2-(2-butoxyethoxy)ethanol I-mit values (Belgium, 5/2021). 2-(2-butoxyethoxy)ethanol Limit values (Belgium, 5/2021). 3-mmonia STEL: 101.2 mg/m ³ 15 minutes. 2-Butoxyethanol Limit values (Belgium, 5/2021). [ammonia] TWX: 20 ppm 8 hours. STEL: 50 pm 15 minutes. 2-Butoxyethanol Limit values (Belgium, 5/2021). [ammonia] TWX: 20 ppm 8 hours. STEL: 50 pm 15 minutes. 2-Butoxyethanol Limit values (Belgium, 5/2021). Absorbed through sk TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. 2-(2-butoxyethoxy)ethanol Ministry of Labour and Social Policy and the Ministry Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 6 hours: 6.7.5 mg/m ³ 6 hours. 2-(2-butoxyethoxy)ethanol Ministry of Labour and Social Policy and the Ministry Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). Ab through skin. 2-(2-butoxyethoxy)ethanol Ministry of Labour and Social Policy and the Ministry Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). Ab through skin. <th>lth</th> <th>nrough skin.</th>	lth	nrough skin.
TWA: 98 mg/m³ 8 hours. PEAK: 200 mg/m³.4 times per shift, 30 minutes. PEAK: 200 mg/m³.4 times per shift, 30 minutes. Regulation on Limit Values • MAC (Austria, 4/2021). [2 smethy-21-butiazol-3-one [EC no. 220-239-6] (3:1)2-2-239-6] (3:1)Zemethy-21-aduptroisothiazol-3-one and 2-methyl-2, z-duptroisothiazol-3-one (mixture in the ratio 3:1)] Skin sensitiser. TWA: 0.05 mg/m³ 8 hours. Limit values (Belgium, 5/2021). STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m³ 8 hours. TWA: 67.5 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m³ 15 minutes. STEL: 246 mg/m³ 15 minutes. STEL: 246 mg/m³ 15 minutes. Limit values 8 hours: 101.2 mg/m³ 15 minutes. Limit value 15 min: 50 ppm 15 minutes. Limit value 8 hours: 20 ppm 8 hours.2-ButoxyethanolMinistry of Labour and Social Policy and the Ministry Heatth - Ordinance No 13/2003. (Bulgaria, 6/2021). Ab through skin. Limit value 8 hours: 20 ppm 8 hours.2-ButoxyethanolMinistry of Economy, Labour and Entrepreneurship		
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STELV (Croatia, 1/2021). Absorbed through skin. STELV: 246 mg/m ³ 15 minutes. STELV: 50 ppm 15 minutes. ELV: 98 mg/m ³ 8 hours.		
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STELV: 50 ppm 15 minutes. ELV: 98 mg/m ³ 8 hours.		
ELV: 98 mg/m ³ 8 hours.		
	1	ELV: 98 mg/m ³ 8 hours.
ELV: 20 ppm 8 hours.		ELV: 20 ppm 8 hours.

SECTION 8: Exposure controls/personal protection				
2-(2-butoxyethoxy)ethanol		Department of labour inspect STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m ³ 15 minute TWA: 10 ppm 8 hours.		
Ammonia		indicative occupational expo TWA: 20 ppm 8 hours. TWA: 14 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes.	nmonia, anhydrous] Notes: list of sure limit values	
2-Butoxyethanol		STEL: 36 mg/m ³ 15 minutes. Department of labour inspect through skin. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours.	tion (Cyprus, 7/2021). Absorbed	
2-(2-butoxyethoxy)ethanol		Government regulation of Cz Republic, 5/2021). TWA: 70 mg/m ³ 8 hours. TWA: 10.36 ppm 8 hours. STEL: 100 mg/m ³ 15 minutes. STEL: 14.8 ppm 15 minutes.	ech Republic PEL/NPK-P (Czech	
Ammonia				
2-Butoxyethanol		Government regulation of Cz Republic, 5/2021). Absorbed to TWA: 100 mg/m ³ 8 hours. TWA: 20.4 ppm 8 hours. STEL: 200 mg/m ³ 15 minutes. STEL: 40.8 ppm 15 minutes.	-	
2-(2-butoxyethoxy)ethanol		Working Environment Author TWA: 68 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. STEL: 101 mg/m ³ 15 minutes.		
Ammonia			rity (Denmark, 6/2022). [ammonia]	
2-Butoxyethanol			rity (Denmark, 6/2022). Absorbed	
2-(2-butoxyethoxy)ethanol		Occupational exposure limits 3/2022). TWA: 10 ppm 8 hours. TWA: 67.5 mg/m ³ 8 hours.	s, Regulation No. 293 (Estonia,	
Ammonia 2-Butoxyethanol		Occupational exposure limits 3/2022). [ammonia] TWA: 14 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. STEL: 36 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes.	s, Regulation No. 293 (Estonia, s, Regulation No. 293 (Estonia,	
		TWA: 98 mg/m ³ 8 hours.		
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	TWA: 20 ppm 8 hours. STEL: 246 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes.
2-(2-butoxyethoxy)ethanol	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	TWA: 67.5 mg/m ³ 8 hours.
	TWA: 10 ppm 8 hours.
	STEL: 101.2 mg/m ³ 15 minutes. STEL: 15 ppm 15 minutes.
Ammonia	EU OEL (Europe, 1/2022). [ammonia, anhydrous] Notes: list
	indicative occupational exposure limit values
	TWA: 20 ppm 8 hours. TWA: 14 mg/m³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 36 mg/m ³ 15 minutes.
2-Butoxyethanol	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
	of indicative occupational exposure limit values TWA: 20 ppm 8 hours.
	TWA: 20 ppm 0 hours. TWA: 98 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
-	STEL: 246 mg/m ³ 15 minutes.
-(2-butoxyethoxy)ethanol	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). TWA: 10 ppm 8 hours.
	TWA: $68 \text{ mg/m}^3 8 \text{ hours}.$
Ammonia	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 20 ppm 8 hours. Form: solution TWA: 14 mg/m ³ 8 hours. Form: solution
	STEL: 50 ppm 15 minutes. Form: solution
	STEL: 36 mg/m ³ 15 minutes. Form: solution
2-Butoxyethanol	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin. TWA: 20 ppm 8 hours.
	TWA: 98 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 250 mg/m ³ 15 minutes.
-(2-butoxyethoxy)ethanol	Ministry of Labor (France, 10/2022). Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)
	STEL: 101.2 mg/m ³ 15 minutes.
	STEL: 15 ppm 15 minutes.
	TWA: 67.5 mg/m ³ 8 hours.
Ammonia	TWA: 10 ppm 8 hours. Ministry of Labor (France, 10/2022). [ammonia] Notes:
	Binding regulatory limit values (article R. 4412-149 of the
	Labor Code)
	TWA: 10 ppm 8 hours.
	TWA: 7 mg/m³ 8 hours. STEL: 20 ppm 15 minutes.
	STEL: 14 mg/m ³ 15 minutes.
-Butoxyethanol	Ministry of Labor (France, 10/2022). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
	TWA: 10 ppm 8 hours.
	TWA: 49 mg/m ³ 8 hours.
	STEL: 246 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
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SECTION 8: Exposure controls/personal protection

2-(2-butoxyethoxy)ethanol	TRGS 900 OEL (Germany, 6/2022).
	TWA: 67 mg/m ³ 8 hours.
	PEAK: 100.5 mg/m ³ 15 minutes.
	TWA: 10 ppm 8 hours.
	PEAK: 15 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022).
	TWA: 67 mg/m ³ 8 hours.
	PEAK: 100.5 mg/m ³ , 4 times per shift, 15 minutes. TWA: 10 ppm 8 hours.
	PEAK: 15 ppm, 4 times per shift, 15 minutes.
Ammonia	TRGS 900 OEL (Germany, 6/2022). [ammonia]
Annonia	TWA: 14 mg/m ³ 8 hours.
	TWA: 14 flight 6 hours.
	PEAK: 28 mg/m ³ 15 minutes.
	PEAK: 40 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). [Ammonia]
	TWA: 20 ppm 8 hours.
	PEAK: 40 ppm, 4 times per shift, 15 minutes.
	TWA: 14 mg/m ³ 8 hours.
	PEAK: 28 mg/m ³ , 4 times per shift, 15 minutes.
2-Butoxyethanol	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
	TWA: 49 mg/m ³ 8 hours.
	PEAK: 98 mg/m³ 15 minutes.
	TWA: 10 ppm 8 hours.
	PEAK: 20 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
	TWA: 10 ppm 8 hours.
	PEAK: 20 ppm, 4 times per shift, 15 minutes.
	TWA: 49 mg/m ³ 8 hours.
	PEAK: 98 mg/m³, 4 times per shift, 15 minutes.
1,2-benzisothiazol-3(2H)-one	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
2-(2-butoxyethoxy)ethanol	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	STEL: 101.2 mg/m ³ 15 minutes.
	STEL: 15 ppm 15 minutes.
	TWA: 67.5 mg/m ³ 8 hours.
	TWA: 10 ppm 8 hours.
Ammonia	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). [ammonia]
	TWA: 50 ppm 8 hours.
	TWA: 35 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 35 mg/m ³ 15 minutes.
2-Butoxyethanol	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 120 mg/m ³ 8 hours.
2-(2-butoxyethoxy)ethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022).
	TWA: $67.5 \text{ mg/m}^3 8 \text{ hours.}$
	PEAK: 101.2 mg/m ³ 15 minutes.
	PEAK: 15 ppm 15 minutes.
	TWA: 10 ppm 8 hours.
Ammonia	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [ammonia]
	TWA: 14 mg/m ³ 8 hours.
	PEAK: 36 mg/m ³ 15 minutes.
	PEAK: 50 ppm 15 minutes.
	TWA: 20 ppm 8 hours.
2-Butoxyethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 98 mg/m ³ 8 hours.
	PEAK: 246 mg/m ³ 15 minutes.
	PEAK: 50 ppm 15 minutes.
	TWA: 20 ppm 8 hours.
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SECTION 8: Exposure controls/personal protection Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). 2-(2-butoxyethoxy)ethanol STEL: 101.2 mg/m³ 15 minutes. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m³ 8 hours. TWA: 10 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Ammonia [ammonia] Absorbed through skin. STEL: 36 mg/m³ 5 minutes. STEL: 50 ppm 5 minutes. TWA: 14 mg/m³ 8 hours. TWA: 20 ppm 8 hours. 2-Butoxyethanol Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin. STEL: 246 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 100 mg/m³ 8 hours. TWA: 20 ppm 8 hours. NAOSH (Ireland, 5/2021). Notes: EU derived Occupational 2-(2-butoxyethoxy)ethanol Exposure Limit Values OELV-8hr: 10 ppm 8 hours. OELV-15min: 101.2 mg/m³ 15 minutes. OELV-8hr: 67.5 mg/m³ 8 hours. OELV-15min: 15 ppm 15 minutes. Ammonia NAOSH (Ireland, 5/2021). [ammonia, anhydrous] Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 20 ppm 8 hours. OELV-8hr: 14 mg/m³ 8 hours. OELV-15min: 50 ppm 15 minutes. OELV-15min: 36 ma/m³ 15 minutes. 2-Butoxvethanol NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 20 ppm 8 hours. OELV-8hr: 98 mg/m³ 8 hours. OELV-15min: 50 ppm 15 minutes. OELV-15min: 246 mg/m³ 15 minutes. 2-(2-butoxyethoxy)ethanol Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). 8 hours: 10 ppm 8 hours. 8 hours: 67.5 mg/m³ 8 hours. Short Term: 15 ppm 15 minutes. Short Term: 101.2 mg/m³ 15 minutes. Ammonia Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). [ammonia] 8 hours: 20 ppm 8 hours. 8 hours: 14 ma/m³ 8 hours. Short Term: 50 ppm 15 minutes. Short Term: 36 mg/m³ 15 minutes. Legislative Decree No. 819/2008. Title IX. Protection from 2-Butoxyethanol chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 20 ppm 8 hours. 8 hours: 98 mg/m³ 8 hours. Short Term: 50 ppm 15 minutes. Short Term: 246 mg/m³ 15 minutes. 2-(2-butoxyethoxy)ethanol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). STEL: 101.2 mg/m³ 15 minutes. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m³ 8 hours. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Ammonia [ammonia] TWA: 14 mg/m³ 8 hours. STEL: 50 ppm 15 minutes.

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) Butovo othenel	STEL: 36 mg/m ³ 15 minutes. TWA: 20 ppm 8 hours.
2-Butoxyethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 98 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.
	STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
2-(2-butoxyethoxy)ethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 67.5 mg/m³ 8 hours.
	TWA: 10 ppm 8 hours. STEL: 101.2 mg/m ³ 15 minutes.
Ammonia	STEL: 15 ppm 15 minutes. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). [ammonia]
	TWA: 14 mg/m³ 8 hours. TWA: 20 ppm 8 hours.
-Butoxyethanol	STEL: 36 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
-Buloxyelianoi	Absorbed through skin. TWA: 50 mg/m ³ 8 hours.
	TWA: 10 ppm 8 hours. STEL: 100 mg/m³ 15 minutes.
-(2-butoxyethoxy)ethanol	STEL: 20 ppm 15 minutes. Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin. STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m ³ 15 minutes.
	TWA: 10 ppm 8 hours. TWA: 67.5 mg/m ³ 8 hours.
nmonia	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). [ammonia] TWA: 20 ppm 8 hours.
	TWA: 14 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 36 mg/m ³ 15 minutes.
-Butoxyethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. TWA: 20 ppm 8 hours.
	TWA: 98 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
-(2-butoxyethoxy)ethanol	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values
	TWA: 67.5 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. STEL: 101.2 mg/m ³ 15 minutes.
mmonia	STEL: 15 ppm 15 minutes. EU OEL (Europe, 1/2022). [ammonia, anhydrous] Notes: list
	indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 14 mg/m ³ 8 hours.
-Butoxyethanol	STEL: 50 ppm 15 minutes. STEL: 36 mg/m ³ 15 minutes. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis
	of indicative occupational exposure limit values TWA: 20 ppm 8 hours.
	TWA: 98 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.

SECTION 8: Exposure controls/personal protection

2-(2-butoxyethoxy)ethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 7/2021). Absorbed through skin. OEL, 8-h TWA: 50 mg/m ³ 8 hours. STEL,15-min: 100 mg/m ³ 15 minutes.
Ammonia	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 7/2021). [ammonia] OEL, 8-h TWA: 14 mg/m ³ 8 hours. STEL,15-min: 36 mg/m ³ 15 minutes.
2-Butoxyethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 7/2021). Absorbed through skin. OEL, 8-h TWA: 100 mg/m ³ 8 hours. STEL,15-min: 246 mg/m ³ 15 minutes.
2-(2-butoxyethoxy)ethanol	FOR-2011-12-06-1358 (Norway, 6/2021). Notes: indicative limit value TWA: 10 ppm 8 hours.
Ammonia	TWA: 68 mg/m ³ 8 hours. FOR-2011-12-06-1358 (Norway, 6/2021). [ammonia] Notes: indicative limit value TWA: 15 ppm 8 hours. TWA: 11 mg/m ³ 8 hours. FOR-2011-12-06-1358 (Norway, 6/2021). [ammonia] STEL: 50 ppm 15 minutes.
2-Butoxyethanol	STEL: 36 mg/m ³ 15 minutes. FOR-2011-12-06-1358 (Norway, 6/2021). Absorbed through skin. Notes: indicative limit value TWA: 10 ppm 8 hours. TWA: 50 mg/m ³ 8 hours.
2-(2-butoxyethoxy)ethanol	Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 67 mg/m ³ 8 hours.
Ammonia	STEL: 100 mg/m ³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). [ammonia] TWA: 14 mg/m ³ 8 hours. STEL: 28 mg/m ³ 15 minutes.
2-Butoxyethanol	Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 98 mg/m ³ 8 hours. STEL: 200 mg/m ³ 15 minutes.
2-(2-butoxyethoxy)ethanol	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor
Ammonia	Portuguese Institute of Quality (Portugal, 11/2014). [ammonia] TWA: 25 ppm 8 hours.
2-Butoxyethanol	STEL: 35 ppm 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours.
₽-(2-butoxyethoxy)ethanol	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 67.5 mg/m ³ 8 hours. Short term: 101.2 mg/m ³ 15 minutes. Short term: 15 ppm 15 minutes. VLA: 10 ppm 8 hours.
Ammonia	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [ammonia]
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	VLA: 14 mg/m ³ 8 hours. VLA: 20 ppm 8 hours.
2-Butoxyethanol	Short term: 36 mg/m ³ 15 minutes. Short term: 50 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 98 mg/m ³ 8 hours. VLA: 20 ppm 8 hours. Short term: 246 mg/m ³ 15 minutes. Short term: 50 ppm 15 minutes.
2-(2-butoxyethoxy)ethanol	Government regulation SR c. 355/2006 (Slovakia, 9/2020). TWA: 67.5 mg/m ³ 8 hours. STEL: 101.2 mg/m ³ 15 minutes. TWA: 10 ppm 8 hours.
Ammonia	STEL: 15 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). [ammonia] TWA: 14 mg/m ³ , (ammonia) 8 hours. TWA: 20 ppm, (ammonia) 8 hours. STEL: 36 mg/m ³ , (ammonia) 15 minutes.
2-Butoxyethanol	STEL: 50 ppm, (ammonia) 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 98 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. STEL: 246 mg/m ³ 15 minutes.
2-(2-butoxyethoxy)ethanol	STEL: 50 ppm 15 minutes. Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) TWA: 67.5 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. KTV: 101.2 mg/m ³ , 4 times per shift, 15 minutes.
Ammonia	KTV: 15 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) [ammonia] TWA: 14 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.
2-Butoxyethanol	 KTV: 36 mg/m³, 4 times per shift, 15 minutes. KTV: 50 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) Absorbed through skin. TWA: 98 mg/m³ 8 hours. TWA: 20 ppm 8 hours. KTV: 246 mg/m³, 4 times per shift, 15 minutes. KTV: 50 ppm, 4 times per shift, 15 minutes.
2-(2-butoxyethoxy)ethanol	National institute of occupational safety and health (Spain, 4/2022). TWA: 67.5 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes.
Ammonia	STEL: 101.2 mg/m ³ 15 minutes. National institute of occupational safety and health (Spain, 4/2022). [ammonia] TWA: 20 ppm 8 hours. TWA: 14 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 26 mg/m ³ 15 minutes.
2-Butoxyethanol	STEL: 36 mg/m ³ 15 minutes. National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 245 mg/m ³ 15 minutes.

SECTION 8: Exposure controls/personal protection STEL: 50 ppm 15 minutes. 2-(2-butoxyethoxy)ethanol Work environment authority Regulation 2018:1 (Sweden, 9/2021). TWA: 10 ppm 8 hours. TWA: 68 mg/m³ 8 hours. STEL: 15 ppm 15 minutes. STEL: 101 mg/m³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden, Ammonia 9/2021). [ammonia] TWA: 20 ppm 8 hours. TWA: 14 mg/m³ 8 hours. STEL: 50 ppm 5 minutes. STEL: 36 mg/m³ 5 minutes. 2-Butoxyethanol Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. TWA: 10 ppm 8 hours. TWA: 50 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m³ 15 minutes. 2-(2-butoxyethoxy)ethanol SUVA (Switzerland, 3/2022). TWA: 67 mg/m³ 8 hours. Form: vapour and aerosols STEL: 101 mg/m³ 15 minutes. Form: vapour and aerosols STEL: 15 ppm 15 minutes. Form: vapour and aerosols TWA: 10 ppm 8 hours. Form: vapour and aerosols Ammonia SUVA (Switzerland, 3/2022). [ammonia] TWA: 20 ppm 8 hours. TWA: 14 mg/m³ 8 hours. STEL: 40 ppm 15 minutes. STEL: 28 mg/m³ 15 minutes. SUVA (Switzerland, 3/2022). Absorbed through skin. 2-Butoxyethanol TWA: 10 ppm 8 hours. TWA: 49 mg/m³ 8 hours. STEL: 20 ppm 15 minutes. STEL: 98 mg/m³ 15 minutes. reaction mass of: 5-chloro-2-methyl-SUVA (Switzerland, 3/2022). Skin sensitiser. 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) STEL: 0.4 mg/m³ 15 minutes. Form: Inhalable fraction TWA: 0.2 mg/m³ 8 hours. Form: Inhalable fraction 2-(2-butoxyethoxy)ethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m³ 8 hours. STEL: 101.2 mg/m³ 15 minutes. Ammonia EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia anhydrous] STEL: 25 mg/m³ 15 minutes. Form: anhydrous STEL: 35 ppm 15 minutes. Form: anhydrous TWA: 25 ppm 8 hours. Form: anhydrous TWA: 18 mg/m³ 8 hours. Form: anhydrous 2-Butoxyethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours. STEL: 246 mg/m³ 15 minutes. TWA: 123 mg/m³ 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Formaldehyde STEL: 2.5 mg/m³ 15 minutes. STEL: 2 ppm 15 minutes. TWA: 2 ppm 8 hours. TWA: 2.5 mg/m³ 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
No exposure indices known.	
2-Butoxyethanol	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week. Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.
No exposure indices known.	
2-Butoxyethanol	 DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of shift active acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
2-Butoxyethanol	NAOSH (Ireland, 1/2011) BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end shift - As soon as possible after exposure ceases.
No exposure indices known.	
2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.
No exposure indices known.	
No exposure indices known.	

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2-Butoxyethanol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term
	exposure: at the end of the work shift after several consecutive workdays.
2-Butoxyethanol	National institute of occupational safety and health (Spain, 4/2022)
	VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling time: end of shift.
No exposure indices known.	
2-Butoxyethanol	SUVA (Switzerland, 3/2022) BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
₽-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.
procedures Europ asses	ence should be made to monitoring standards, such as the following: ean Standard EN 689 (Workplace atmospheres - Guidance for the sment of exposure by inhalation to chemical agents for comparison with limit s and measurement strategy) European Standard EN 14042 (Workplace

assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
2-(2-butoxyethoxy)ethanol	DNEL	Long term Oral	6.25 mg/	General	Systemic
		-	kg bw/day	population	-
	DNEL	Long term	67.5 mg/m ³	Workers	Local
		Inhalation	Ũ		
	DNEL	Short term	101.2 mg/	Workers	Local
		Inhalation	m³		
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
,		Ŭ	bw/day	population	5
	DNEL	Short term Oral	26.7 mg/	General	Systemic
			kg bw/day	population	5
	DNEL	Long term	59 mg/m ³	General	Systemic
		Inhalation	Ū	population	
	DNEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation	Ũ		5
	DNEL	Short term	147 mg/m³	General	Local
		Inhalation	Ū	population	
	DNEL	Short term	246 mg/m ³	Workers	Local
		Inhalation	Ũ		
	DNEL	Short term	426 mg/m ³	General	Systemic
		Inhalation	Ū	population	
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m³		
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.966 mg/	Workers	Systemic
		-	kg bw/day		
	DNEL	Long term	1.2 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	6.81 mg/m ³	Workers	Systemic
		Inhalation	-		
reaction mass of: 5-chloro-2-methyl-	DNEL	Long term	0.02 mg/m ³	General	Local
4-isothiazolin-3-one [EC no.		Inhalation	-	population	

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247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)					
	DNEL	Long term Inhalation	0.02 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	0.04 mg/m ³	General population	Local
	DNEL	Short term Inhalation	0.04 mg/m ³	Workers	Local
	DNEL	Long term Oral	0.09 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.11 mg/ kg bw/day	General population	Systemic

PNECs

No PNECs available

8.2 Exposure controls				
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.			
Individual protection meas	<u>ures</u>			
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.			
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.			
Skin protection				
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.			
	Recommendations : Wear suitable gloves tested to EN374.			
	> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm			
Body protection	 Not recommended polyvinyl alcohol (PVA) gloves 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

<u>Appearance</u>	
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-butoxyeth	ioxy)ethanol	225 to 227.6	437 to 441.7	

Fla	mma	abil	ity
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: Not available.

Lower and upper explosion	: Lower: Not applicable.
limit	Upper: Not applicable.

Flash point

: Closed cup: >100°C (>212°F) :

Auto-ignition temperature

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

Decomposition temperature pH	:	Not available. Not applicable.
Viscosity	;	Not available.
Solubility(ies)	:	
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/	:	Not applicable.

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water Vapour pressure

	Vapour Pressure at 20°C		V	sure 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 available.
Density	: 1.2 g/cm ³
Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.
Oxidising properties Particle characteristics	: Not available.

SECTION 10: Stabilit	and reactivity	
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredien	ıts.
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.	i

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-butoxyethoxy)ethanol	LD50 Dermal LD50 Oral	Rabbit Rat	2700 mg/kg 4500 mg/kg	-
, , , , , , , , , , , , , , , , , , , ,	LD50 Oral LD50 Oral	Rat Rat	350 mg/kg 1020 mg/kg	-
one reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-	LD50 Oral	Rat	53 mg/kg	-
3-one [EC no. 220-239-6] (3: 1)				

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Acute toxicity estimates

Route		ATE value	
Inha	lation (vapours)	3000 mg/l	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
Ammonia	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 mg	-
	Eyes - Severe irritant	Rabbit	-	250 ug	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
1,2-benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	48 hours 5 %	-
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)	Skin - Severe irritant	Human	-	0.01 %	-

Conclusion/Summary

: Based on available data, the classification criteria are not met.

SECTION 11: Toxicological information

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Sensitisation	
Conclusion/Summary	: May cause an allergic skin reaction.
Mutagenicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Carcinogenicity	
	he carcinogenic hazard of this product arises when respirable dust is inhaled in quantities ment of particle clearance mechanisms in the lung.
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Reproductive toxicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Teratogenicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Specific target organ toxi	city (single exposure)

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Ammonia	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on	likely routes	1	Not available.

of exposure

Potential acute health effects		
Eye contact	: No known significant effects or critical hazards	; .
Inhalation	: No known significant effects or critical hazards	3.
Skin contact	: May cause an allergic skin reaction.	

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, 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 effects as well as chronic effects from short and long-term exposure

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health ef	<u>fects</u>
Not available.	
Conclusion/Summary	: Not available.

SECTION 11: Toxicological information

	-
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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties
Not available.
11.2.2 Other information
Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Manium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
2-(2-butoxyethoxy)ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
Ammonia	Acute LC50 37 ppm Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
1,2-benzisothiazol-3(2H)-one	Acute EC50 0.36 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
	Acute EC50 3.7 mg/l	Daphnia - Daphnia Magna	48 hours
	Acute LC50 1.9 mg/l Fresh water	Fish - Onorhynchus Mykiss	96 hours
	Acute NOEC 0.15 mg/l Marine water	Algae - Skeletonema Čostatum	72 hours

Conclusion/Summary : Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
1,2-benzisothiazol-3(2H)-one	EU	24 % - 28 days		-	-
Conclusion/Summary : This product has not been tested for biodegradation.					
Product/ingredient name	Aquatic half-life Photolysis Biodegradabili				Biodegradability
1,2-benzisothiazol-3(2H)-one	-		-		Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-(2-butoxyethoxy)ethanol	1	-	Low
2-Butoxyethanol	0.81	-	Low
1,2-benzisothiazol-3(2H)-one	-	3.2	Low

12.4 Mobility in soil Soil/water partition coefficient (Koc) Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
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	IATA
14.1 UN number or ID number	Not regulated.	9006	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADN

: The product is only regulated as a dangerous good when transported in tank vessels.

14.6 Special precautions for user: **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.

SECTION 14: Transport information

14.7 Maritime transport in bulk according to IMO instruments : Not relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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 PROTECT 2408-00	≥90	3	
2-(2-butoxyethoxy)ethanol	≤3	55 [Consumer paint]	
Labelling :			
ther 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 applicabl			
<u>Ozone depleting substances (1005/2009/E</u>	<u>U)</u>		
Not listed.			
Prior Informed Consent (PIC) (649/2012/EL	<u>J)</u>		
Not listed.			
Persistent Organic Pollutants			
Not listed.			
Seveso Directive			
This product is not controlled under the Seve	so Directiv	/e	
ational regulations			
Austria			
VbF class : Not regulated	4		
Limitation of the use of : Permitted.			
organic solvents			
Czech Republic			
Storage code : IV			
Denmark			
Danish fire class : IV-1			
Executive Order No. 1795/2015			
Ingredient name		Annex I Section A	Annex I Section B
in tranium dioxide		Listed	-

SECTION 15: Regulatory information

Protection based on MAL	:	According to the regulations on work involving coded products, stipulations apply to the use of personal protective equipment:	the following
		General: Gloves must be worn for all work that may result in soiling. A coveralls/protective clothing must be worn when soiling is so great tha clothes do not adequately protect skin against contact with the produc shield must be worn in work involving spattering if a full mask is not recase, other recommended use of eye protection is not required.	t regular wor t. A face
		In all spraying operations in which there is return spray, the following r respiratory protection and arm protectors/apron/coveralls/protective cl appropriate or as instructed.	
		MAL-code: 00-1 Application: When spraying in existing* spray booths, if the operator spray zone.	is outside th
		- Arm protectors must be worn.	
		During all spraying where atomisation occurs in cabins or spray booth operator is inside the spray zone and during spraying outside a closed or booth.	
		- Full mask with combined filter, coveralls and hood must be worn.	
		Drying: Items for drying/drying ovens that are temporarily placed on s rack trolleys, etc, must be equipped with a mechanical exhaust system fumes from wet items from passing through workers' inhalation zone.	
		Polishing: When polishing treated surfaces, a mask with dust filter m When machine grinding, eye protection must be worn. Work gloves m worn.	
		Caution The regulations contain other stipulations in addition to the a	bove.
		*See Regulations.	
Restrictions on use	:	Not to be used by professional users below 18 years of age. See the N Working Environment Authorities Executive Order regarding Young Pe	
List of undesirable substances	:	Not listed	
Carcinogenic waste	:	Waste containers must be labeled: Contains a substance or substanc by Danish working environment legislation on cancer risks.	es regulated
<u>Finland</u>			
<u>France</u>			
Social Security Code, Articles L 461-1 to L 461-7	1	2-(2-butoxyethoxy)ethanolRG 842-ButoxyethanolRG 84	
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities which require rein medical surveillance: not applicable	forced
<u>Germany</u> Storage class (TRGS 510)	:	10	
Hazardous incident ordina			
		– nder the Germany Hazardous Incident Ordinance.	
This product is not controlled	:	2	
This product is not controlled Hazard class for water			
•	:	TA-Luft Number 5.2.5: 3.8%	

SECTION 15: Regulatory information

<u>Italy</u>	
D.Lgs. 152/06	: Not determined.
Netherlands	
Water Discharge Policy (ABM)	: A(3) Hazardous for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A
<u>Norway</u>	
<u>Sweden</u>	
Switzerland	
VOC content	: Exempt.
International regulations	
Chemical Weapon Convent	tion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
	Perciptent Ormania Ballutanta
	Persistent Organic Pollutants
Not listed.	
Rotterdam Convention on	Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protocol or	<u>POPs and Heavy Metals</u>
Not listed.	

15.2 Chemical safety assessment

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

SECTION 16: Other information

Indicates information	ion 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 vPvB = Very Persistent and Very Bioaccumulative
Dressdurs used to a	arive the electricities according to Degulation (EC) No. 4272/2009 [CLD/CHS]

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.	
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SECTION 16	: Other information
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 class	ifications [CLP/GHS]
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 7	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

SKIN CORROSION/IRRITATION - Category 1B

SKIN CORROSION/IRRITATION - Category 1C

SKIN CORROSION/IRRITATION - Category 2

SKIN SENSITISATION - Category 1

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SKIN SENSITISATION - Category 1A

	Ν	oti	ce	to	rea	der	
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Eye Dam. 1

Skin Corr. 1B

Skin Corr. 1C

Eye Irrit. 2

Skin Irrit. 2

Skin Sens. 1

STOT SE 3

revision

Version

Skin Sens. 1A

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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

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