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	: 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	 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
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)

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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	<0.036	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = 0.21 mg/l Skin Sens. 1, H317: $C \ge 0.036\%$ M [Acute] = 1 M [Chronic] = 1	[1]
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:1)	EC: 911-418-6 CAS: 55965-84-9 Index: 613-167-00-5	<0.0025	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l	[1]
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SECTION 3: Composition/information on ingredients

SECTION 5. Composition/mormation on ingredients			
	H410 EUH071	Skin Corr. 1C, H314: $C \ge 0.6\%$ Eye Dam. 1, H318: $C \ge 0.6\%$ Eye Irrit. 2, H319: $0.06\% \le C < 0.6\%$ Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 100 M [Chronic] = 100	
	See Section 16 for the full text of the H statements declared above.		

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms				
Eye contact	: No specific data.			
Inhalation	: No specific data.			

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SECTION 4: First aid	measures
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any immedia	te 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: Firefight	ing 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	om 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 for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	СС	ontainment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Absorb with an inert
material and place in an appropriate waste disposal container. Dispose of via a
licensed waste disposal contractor.

SECTION 6: Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name			Exposure limit v	alues		
2-(2-butoxyethoxy)ethanol		TWA 8 hours: 10 TWA 8 hours: 67. PEAK 15 minutes	5 mg/m³. : 15 ppm 4 times per	shift.		
Ammonia		Regulation on Lin TWA 8 hours: 20 TWA 8 hours: 14 PEAK 15 minutes		shift.	[Amn	noniak]
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SECTION 8: Exposure controls/personal protection

\$	SECTION 8: Exposure controls/pe	ersonal protection
	2-Butoxyethanol	Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . PEAK 30 minutes: 40 ppm 4 times per shift. PEAK 30 minutes: 200 mg/m ³ 4 times per shift.
	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)	Regulation on Limit Values - MAC (Austria, 4/2021) [5-Chlor- 2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-di- hydroisothiazol-3-on (Gemisch im Verhältnis 3:1)] Skin sensitiser. TWA 8 hours: 0.05 mg/m ³ .
	2-(2-butoxyethoxy)ethanol	Limit values (Belgium, 12/2023) STEL 15 minutes: 15 ppm. TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m ³ . STEL 15 minutes: 101.2 mg/m ³ .
	Ammonia	Limit values (Belgium, 12/2023) [Ammoniak] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m ³ .
	2-Butoxyethanol	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .
	2-(2-butoxyethoxy)ethanol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Limit value 8 hours: 67.5 mg/m ³ . Limit value 15 minutes: 101.2 mg/m ³ . Limit value 15 minutes: 15 ppm. Limit value 8 hours: 10 ppm.
	Ammonia	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Ammonia] Limit value 8 hours: 14 mg/m ³ . Limit value 15 minutes: 36 mg/m ³ . Limit value 15 minutes: 50 ppm. Limit value 8 hours: 20 ppm.
	2-Butoxyethanol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin. Limit value 8 hours: 98 mg/m ³ . Limit value 15 minutes: 246 mg/m ³ . Limit value 15 minutes: 50 ppm. Limit value 8 hours: 20 ppm.
	2-(2-butoxyethoxy)ethanol	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) STELV 15 minutes: 101.2 mg/m ³ . STELV 15 minutes: 15 ppm. ELV 8 hours: 67.5 mg/m ³ . ELV 8 hours: 10 ppm.
	Ammonia	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) [amonijak, bezvodni] STELV 15 minutes: 36 mg/m ³ . STELV 15 minutes: 50 ppm. ELV 8 hours: 14 mg/m ³ . ELV 8 hours: 20 ppm.
	2-Butoxyethanol	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) Absorbed through skin.
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	STELV 15 minutes: 246 mg/m ³
	STELV 15 minutes: 246 mg/m ³ . STELV 15 minutes: 50 ppm. ELV 8 hours: 98 mg/m ³ . ELV 8 hours: 20 ppm.
2-(2-butoxyethoxy)ethanol	Department of labour inspection (Cyprus, 7/2021) STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m ³ . TWA 8 hours: 10 ppm.
Ammonia	TWA 8 hours: 67.5 mg/m ³ . EU OEL (Europe, 1/2022) [ammonia, anhydrous] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m ³ .
2-Butoxyethanol	Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ . TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ .
2-(2-butoxyethoxy)ethanol	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m ³ . STEL 15 minutes: 15 ppm.
Ammonia	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [amoniak bezvodý] TWA 8 hours: 14 mg/m ³ . STEL 15 minutes: 36 mg/m ³ . TWA 8 hours: 20 ppm. STEL 15 minutes: 50 ppm.
2-Butoxyethanol	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 98 mg/m ³ . TWA 8 hours: 20 ppm. STEL 15 minutes: 200 mg/m ³ . STEL 15 minutes: 40.7 ppm.
2-(2-butoxyethoxy)ethanol	Working Environment Authority (Denmark, 3/2024) TWA 8 hours: 68 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101 mg/m ³ .
Ammonia	Working Environment Authority (Denmark, 3/2024) [ammoniak TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m ³ . STEL 15 minutes: 36 mg/m ³ . STEL 15 minutes: 50 ppm.
2-Butoxyethanol	Working Environment Authority (Denmark, 3/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 246 mg/m ³ . STEL 15 minutes: 50 ppm.
2-(2-butoxyethoxy)ethanol	Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 10 ppm.
Ammonia	TWA 8 hours: 67.5 mg/m ³ . Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [ammoniaak] TWA 8 hours: 14 mg/m ³ . TWA 8 hours: 20 ppm.

	STEL 15 minutes: 36 mg/m ³ .
2-Butoxyethanol	STEL 15 minutes: 50 ppm. Occupational exposure limits, Regulation No. 293 (Estonia,
	4/2024) Absorbed through skin , Sensitiser.
	TWA 8 hours: 98 mg/m ³ .
	TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m ³ .
	STEL 15 minutes: 50 ppm.
-(2-butoxyethoxy)ethanol	EU OEL (Europe, 1/2022)
	TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm.
	STEL 15 minutes: 101.2 mg/m^3 .
	STEL 15 minutes: 15 ppm.
mmonia	EU OEL (Europe, 1/2022) [ammonia, anhydrous] TWA 8 hours: 20 ppm.
	TWA 8 hours: 14 mg/m ³ .
	STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m ³ .
-Butoxyethanol	EU OEL (Europe, 1/2022) Absorbed through skin.
5	TWA 8 hours: 20 ppm.
	TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm.
	STEL 15 minutes: 246 mg/m ³ .
-(2-butoxyethoxy)ethanol	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021) TWA 8 hours: 10 ppm.
	TWA 8 hours: 68 mg/m ³ .
mmonia	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021) TWA 8 hours: 20 ppm. Form: solution.
	TWA 8 hours: 14 mg/m ³ . Form: solution.
	STEL 15 minutes: 50 ppm. Form: solution. STEL 15 minutes: 36 mg/m ³ . Form: solution.
-Butoxyethanol	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021) Absorbed through skin.
	TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ .
	STEL 15 minutes: 50 ppm.
	STEL 15 minutes: 250 mg/m ³ .
-(2-butoxyethoxy)ethanol	Ministry of Labor (France, 6/2024) STEL 15 minutes: 101.2 mg/m ³ . Notes: Indicative regulatory lim
	values (decree of 30-06-2004 modified)
	STEL 15 minutes: 15 ppm. Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)
	TWA 8 hours: 67.5 mg/m ³ . Notes: Indicative regulatory limit
	values (decree of 30-06-2004 modified) TWA 8 hours: 10 ppm. Notes: Indicative regulatory limit values
	(decree of 30-06-2004 modified)
mmonia	Ministry of Labor (France, 6/2024) [ammoniac anhydre]
	TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
	TWA 8 hours: 7 mg/m ³ . Notes: Binding regulatory limit values
	(article R. 4412-149 of the Labor Code) STEL 15 minutes: 20 ppm. Notes: Binding regulatory limit value
	(article R. 4412-149 of the Labor Code)
	STEL 15 minutes: 14 mg/m ³ . Notes: Binding regulatory limit
-Butoxyethanol	values (article R. 4412-149 of the Labor Code) Ministry of Labor (France, 6/2024) Absorbed through skin.
- Datoryothanol	TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values
	(article R. 4412-149 of the Labor Code)
	TWA 8 hours: 49 mg/m ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

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		STEL 15 minutes: 246 mg/m ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
	2-(2-butoxyethoxy)ethanol	TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 67 mg/m ³ . PEAK 15 minutes: 100.5 mg/m ³ . TWA 8 hours: 10 ppm. PEAK 15 minutes: 15 ppm.
		 DFG MAC-values list (Germany, 7/2023) Develop C. TWA 8 hours: 67 mg/m³. PEAK 15 minutes: 100.5 mg/m³ 4 times per shift [Interval: 1 hour]. TWA 8 hours: 10 ppm. PEAK 15 minutes: 15 ppm 4 times per shift [Interval: 1 hour].
	Ammonia	 TRGS 900 OEL (Germany, 6/2024) [Ammoniak] TWA 8 hours: 14 mg/m³. TWA 8 hours: 20 ppm. PEAK 15 minutes: 28 mg/m³. PEAK 15 minutes: 40 ppm. DFG MAC-values list (Germany, 7/2023) [Ammonia] Develop C. TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 14 mg/m³. PEAK 15 minutes: 28 mg/m³ 4 times per shift [Interval: 1 hour].
	2-Butoxyethanol	 TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 49 mg/m³. PEAK 15 minutes: 98 mg/m³. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 49 mg/m³. PEAK 15 minutes: 98 mg/m³ 4 times per shift [Interval: 1 hour].
	1,2-benzisothiazol-3(2H)-one	DFG MAC-values list (Germany, 7/2023) Skin sensitiser.
	2-(2-butoxyethoxy)ethanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) STEL 15 minutes: 101.2 mg/m ³ .
		STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm.
	Ammonia	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) [αμμωνία] TWA 8 hours: 50 ppm. TWA 8 hours: 35 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 35 mg/m ³ .
	2-Butoxyethanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m ³ .
	2-(2-butoxyethoxy)ethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) TWA 8 hours: 67.5 mg/m ³ . PEAK 15 minutes: 101.2 mg/m ³ . PEAK 15 minutes: 15 ppm. TWA 8 hours: 10 ppm.
	Ammonia	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [ammónia] TWA 8 hours: 14 mg/m ³ . PEAK 15 minutes: 36 mg/m ³ . PEAK 15 minutes: 50 ppm. TWA 8 hours: 20 ppm.
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2-Butoxyethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through
	skin. TWA 8 hours: 98 mg/m³. PEAK 15 minutes: 246 mg/m³. PEAK 15 minutes: 50 ppm.
	TWA 8 hours: 20 ppm.
2-(2-butoxyethoxy)ethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023 STEL 15 minutes: 101.2 mg/m ³ . STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm.
Ammonia	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023 [Ammóníak] Absorbed through skin. STEL 5 minutes: 36 mg/m ³ . STEL 5 minutes: 50 ppm.
	TWA 8 hours: 14 mg/m³. TWA 8 hours: 20 ppm.
2-Butoxyethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023 Absorbed through skin. STEL 15 minutes: 246 mg/m ³ . STEL 15 minutes: 50 ppm. TWA 8 hours: 100 mg/m ³ . TWA 8 hours: 20 ppm.
?-(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, anhydrous] Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 20 ppm. OELV 8 hours: 14 mg/m³. OELV 15 minutes: 50 ppm. OELV 15 minutes: 36 mg/m³.
2-Butoxyethanol	 NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 20 ppm. OELV 8 hours: 98 mg/m³. OELV 15 minutes: 50 ppm. OELV 15 minutes: 246 mg/m³.
2-(2-butoxyethoxy)ethanol	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) Limit value 8 hours: 10 ppm. Limit value 8 hours: 67.5 mg/m ³ . Short Term 15 minutes: 15 ppm. Short Term 15 minutes: 101.2 mg/m ³ .
Ammonia	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) [Ammoniaca anidra] Limit value 8 hours: 20 ppm. Limit value 8 hours: 14 mg/m ³ . Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 36 mg/m ³ .
2-Butoxyethanol	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) Absorbed through skin. Limit value 8 hours: 20 ppm. Limit value 8 hours: 98 mg/m ³ . Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 246 mg/m ³ .

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SECTION 8: Exposure controls/personal protection 2-(2-butoxyethoxy)ethanol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) STEL 15 minutes: 101.2 mg/m³. TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m³. Ammonia Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) [Amonjaks] TWA 8 hours: 14 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m³. TWA 8 hours: 20 ppm. 2-Butoxyethanol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) Absorbed through skin. TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³. Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) 2-(2-butoxyethoxy)ethanol TWA 8 hours: 67.5 mg/m³. TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m³. STEL 15 minutes: 15 ppm. Ammonia Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [amoniakas] TWA 8 hours: 14 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 36 mg/m³. STEL 15 minutes: 50 ppm. Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) 2-Butoxyethanol Absorbed through skin. TWA 8 hours: 50 mg/m³. TWA 8 hours: 10 ppm. STEL 15 minutes: 100 mg/m³. STEL 15 minutes: 20 ppm. 2-(2-butoxyethoxy)ethanol Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m³. TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m³. Ammonia Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [ammoniac anhydre] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m³. Grand-Duchy Regulation 2016. Chemical agents. Annex I 2-Butoxyethanol (Luxembourg, 3/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³. 2-(2-butoxyethoxy)ethanol EU OEL (Europe, 1/2022) TWA 8 hours: 67.5 mg/m³. TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m³. STEL 15 minutes: 15 ppm. Ammonia EU OEL (Europe, 1/2022) [ammonia, anhydrous] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m³.

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2-Butoxyethanol	EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .
2-(2-butoxyethoxy)ethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 50 mg/m ³ . STEL 15 minutes: 100 mg/m ³ . TWA 8 hours: 7.4 ppm. STEL 15 minutes: 14.8 ppm.
Ammonia	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) [ammoniak] TWA 8 hours: 14 mg/m ³ . STEL 15 minutes: 36 mg/m ³ . STEL 15 minutes: 50 ppm. TWA 8 hours: 20 ppm.
2-Butoxyethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 100 mg/m ³ . STEL 15 minutes: 246 mg/m ³ . TWA 8 hours: 20.4 ppm. STEL 15 minutes: 50 ppm.
2-(2-butoxyethoxy)ethanol	FOR-2011-12-06-1358 (Norway, 12/2022) TWA 8 hours: 10 ppm. TWA 8 hours: 68 mg/m³.
Ammonia	FOR-2011-12-06-1358 (Norway, 12/2022) [ammoniakk] TWA 8 hours: 15 ppm. TWA 8 hours: 11 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m ³ .
2-Butoxyethanol	FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skir TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m ³ .
2-(2-butoxyethoxy)ethanol	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) TWA 8 hours: 67 mg/m ³ . STEL 15 minutes: 100 mg/m ³ .
Ammonia	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) [ammonia] TWA 8 hours: 14 mg/m ³ . STEL 15 minutes: 28 mg/m ³ .
2-Butoxyethanol	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 200 mg/m ³ .
2-(2-butoxyethoxy)ethanol	Portuguese Institute of Quality (Portugal, 11/2014) TWA 8 hours: 10 ppm. Form: Inhalable fraction and vapor. Portuguese Institute of Quality (Portugal, 11/2014) Jamoníaco
Ammonia	Portuguese Institute of Quality (Portugal, 11/2014) [amoníaco TWA 8 hours: 25 ppm. STEL 15 minutes: 35 ppm.
2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014) A3. TWA 8 hours: 20 ppm.

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SECTION 8: Exposure controls/personal protection 2-(2-butoxyethoxy)ethanol HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) VLA 8 hours: 67.5 mg/m3. Short term 15 minutes: 101.2 mg/m³. Short term 15 minutes: 15 ppm. VLA 8 hours: 10 ppm. Ammonia HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [amoniac] VLA 8 hours: 14 mg/m³. VLA 8 hours: 20 ppm. Short term 15 minutes: 36 mg/m³. Short term 15 minutes: 50 ppm. HG 1218/2006, Annex 1, with subsequent modifications and 2-Butoxyethanol additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 98 mg/m³. VLA 8 hours: 20 ppm. Short term 15 minutes: 246 mg/m³. Short term 15 minutes: 50 ppm.

Inhalation sensitiser.

TWA 8 hours: 67.5 mg/m³. STEL 15 minutes: 101.2 mg/m³.

[amoniak] Inhalation sensitiser. TWA 8 hours: 14 mg/m³ (ammonia). TWA 8 hours: 20 ppm (ammonia). STEL 15 minutes: 36 mg/m³ (ammonia). STEL 15 minutes: 50 ppm (ammonia).

TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m³. STEL 15 minutes: 50 ppm.

TWA 8 hours: 67.5 mg/m³. TWA 8 hours: 10 ppm.

TWA 8 hours: 14 mg/m³. TWA 8 hours: 20 ppm.

Absorbed through skin. TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm.

[amoniak]

TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm.

Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

KTV 15 minutes: 101.2 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 15 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

KTV 15 minutes: 36 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

KTV 15 minutes: 246 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Absorbed through skin. Inhalation sensitiser.

2-(2-butoxyethoxy)ethanol

Ar	nn	nor	nia
<i>,</i>		101	ΠG

2-Butoxyethanol

2-(2-butoxyethoxy)ethanol

Ammonia

2-Butoxyethanol

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SECTION 8: Exposure controls/personal protection 2-(2-butoxyethoxy)ethanol National institute of occupational safety and health (Spain, 1/2024) TWA 8 hours: 67.5 mg/m³. TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m³. Ammonia National institute of occupational safety and health (Spain, 1/2024) [amoníaco] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m³. National institute of occupational safety and health (Spain, 2-Butoxyethanol 1/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 245 mg/m³. STEL 15 minutes: 50 ppm. 2-(2-butoxyethoxy)ethanol Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 10 ppm. TWA 8 hours: 68 mg/m³. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101 mg/m³. Ammonia Work environment authority Regulation 2018:1 (Sweden, 11/2022) [ammonia] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m³. STEL 5 minutes: 50 ppm. STEL 5 minutes: 36 mg/m³. 2-Butoxyethanol Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³. 2-(2-butoxyethoxy)ethanol SUVA (Switzerland, 1/2024) TWA 8 hours: 67 mg/m³. Form: vapour and aerosols. STEL 15 minutes: 101 mg/m³. Form: vapour and aerosols. STEL 15 minutes: 15 ppm. Form: vapour and aerosols. TWA 8 hours: 10 ppm. Form: vapour and aerosols. Ammonia SUVA (Switzerland, 1/2024) [Ammoniak] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m³. STEL 15 minutes: 40 ppm. STEL 15 minutes: 28 mg/m³.

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)

2-(2-butoxyethoxy)ethanol

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EH40/2005 WELs (United Kingdom (UK), 1/2020) [ammonia]

SUVA (Switzerland, 1/2024) Absorbed through skin.

STEL 15 minutes: 0.4 mg/m³. Form: Inhalable fraction.

TWA 8 hours: 0.2 mg/m³. Form: Inhalable fraction.

EH40/2005 WELs (United Kingdom (UK), 1/2020)

STEL 15 minutes: 25 mg/m³. Form: anhydrous.

SUVA (Switzerland, 1/2024) Sensitiser.

TWA 8 hours: 10 ppm. TWA 8 hours: 49 mg/m³. STEL 15 minutes: 20 ppm. STEL 15 minutes: 98 mg/m³.

TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m³. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m³.

SECTION 8: Exposure controls/personal protection

	STEL 15 minutes: 35 ppm. Form: anhydrous.
	TWA 8 hours: 25 ppm. Form: anhydrous.
	TWA 8 hours: 18 mg/m ³ . Form: anhydrous.
2-Butoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed
	through skin.
	STEL 15 minutes: 50 ppm.
	TWA 8 hours: 25 ppm.
	STEL 15 minutes: 246 mg/m ³ .
	TWA 8 hours: 123 mg/m ³ .

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. No exposure indices known. No exposure indices known. No exposure indices known. Biological limit values (BLV) - Labour Code / ANSES (France, 2-Butoxyethanol 4/2023) [2-butoxyethanol and its acetate] BLV: 100 mg/g Cr, 2-butoxyacetic acid [in urine]. Sampling time: end of shift (regardless of the day of the week). DFG BEI-values list (Germany, 7/2023) Notes: danger from 2-Butoxyethanol 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 longterm exposures: at the end of the shift after several shifts. TRGS 903 - BEI Values (Germany, 2/2024) 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 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 of shift - As soon as possible after exposure ceases. No exposure indices known. No exposure indices known.

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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.	
2-Butoxyethanol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) 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, 1/2024) VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling time: end of shift.
No exposure indices known.	
2-Butoxyethanol	SUVA (Switzerland, 1/2024) BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [i urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
2-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.
Recommended monitoring	: Reference should be made to monitoring standards, such as the following:
procedures	European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedure for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
	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 procedure for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be
	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 procedure for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be
DNELs/DMELs	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 assessmen of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedure for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
<u>DNELs/DMELs</u> Product/ingredient name	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 assessmen of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedure for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
<u>DNELs/DMELs</u> Product/ingredient name	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 assessmen of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedure 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 titanium dioxide	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 procedure for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
titanium dioxide	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 assessmen of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedure for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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SECTION 8: Exposure controls/personal protection

DNEL - General population - Short term - Oral 26.7 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 59 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Inhalation 98 mg/m³ <u>Effects</u>: Systemic

DNEL - General population - Short term - Inhalation 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/m³ <u>Effects</u>: Systemic

DNEL - Workers - Short term - Inhalation 1091 mg/m³ Effects: Systemic

DNEL - General population - Long term - Dermal 0.345 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Dermal 0.966 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 1.2 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Long term - Inhalation 6.81 mg/m³ <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 0.02 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation 0.02 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation 0.04 mg/m³ <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

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)

SECTION 8: Exposure controls/personal protection

DNEL - General population - Short term - Oral 0.11 mg/kg bw/day <u>Effects</u>: Systemic

PNECs

Not available.

8.2 Exposure controls						
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.					
Individual protection measures						
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					
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Odour	Slight				
Odour threshold	: Not available.				
Melting point/freezing point	Not ava	ailable.			
Initial boiling point and boiling range	:				
Ingredient name		°C	°F	Method	
water		100	212		
2-(2-butoxyethoxy)ethanol		225 to 227.6	437 to 441.7		
Flammability	Not ava	ailable.			
Lower and upper explosion limit		Not applicable. 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	Not ava	ailable.			
рН	6 to 9 [Conc. (% w/w):	100%]		
Viscosity	Not ava	ailable.			
Solubility(ies)	:				
Not available.					
Solubility in water	Not ava	ailable.			
Partition coefficient: n-octanol/ water	Not ap	olicable.			

Vapour pressure

	Va	apour Press	ure 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	available.				
Density	: 1.2	g/cm³				
/apour density	: Not	available.				
Particle characteristics						
Median particle size	: Not	applicable.				

9.2 Other information

9.2.1 Information with regard to physical hazard classesExplosive properties: Not available.Oxidising properties: Not available.9.2.2 Other safety characteristics

2

Not applicable.

SECTION 10: Stability and reactivity					
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.				
10.2 Chemical stability	: The product is stable.				
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.				
10.4 Conditions to avoid	: No specific data.				
10.5 Incompatible materials	: No specific data.				
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.				

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in R	egulation (EC) No 1272/2008
Acute toxicity	
Product/ingredient name	Result
2-(2-butoxyethoxy)ethanol	Rabbit - Dermal - LD50
	2700 mg/kg
	Rat - Oral - LD50
	4500 mg/kg
	<u>Toxic effects</u> : Behavioral - Tetany Lung, Thorax, or Respiration - Dyspnea Liver - Other changes
Ammonia	Rat - Oral - LD50
	350 mg/kg
	<u>Toxic effects</u> : Gastrointestinal - Other changes Liver - Other changes Kidney, Ureter, and Bladder - Other changes
1,2-benzisothiazol-3(2H)-one	Rat - Oral - LD50
	1020 mg/kg
reaction mass of: 5-chloro-2-methyl-	Rat - Oral - LD50
4-isothiazolin-3-one [EC no. 247-500-7] and	53 mg/kg
2-methyl-2H-isothiazol-3-one [EC no.	Toxic effects: Behavioral - Somnolence (general depressed
220-239-6] (3:1)	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

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titanium dioxide		Human - Skin - Mild irritant Duration of treatment/exposure: 72 hou Amount/concentration applied: 300 ug l		
2-Butoxyethanol		Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg		
1,2-benzisothiazol-3(2H)-one		Human - Skin - Mild irritant Duration of treatment/exposure: 48 hou Amount/concentration applied: 5 %	irs	
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500- 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)		Human - Skin - Severe irritant Amount/concentration applied: 0.01 %		
Conclusion/Summary [Product]	: Not available	9.		
Serious eye damage/eye irritation				
Product/ingredient name		Result		
2-(2-butoxyethoxy)ethanol		Rabbit - Eyes - Moderate irritant Duration of treatment/exposure: 24 hou Amount/concentration applied: 20 mg	irs	
		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 min Amount/concentration applied: 1 mg	nutes	
2-Butoxyethanol		Rabbit - Eyes - Moderate irritant Duration of treatment/exposure: 24 hou Amount/concentration applied: 100 mg	Irs	
		Rabbit - Eyes - Severe irritant Amount/concentration applied: 100 mg		
Conclusion/Summary [Product]	: Not available	2.		
Respiratory corrosion/irritation Not available.				
Conclusion/Summary [Product]	: Not available	2.		
Respiratory or skin sensitization Not available.				
Skin Conclusion/Summary [Product]	: Not available	Э.		
Respiratory Conclusion/Summary [Product]	: Not available	9.		
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Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)	
Product/ingredient name	Result
Ammonia	STOT SE 3, H335 (Respiratory tract i

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard		
Not available.		
Information on likely routes	of	<u>exposure</u>
Not available.		
Potential acute health effect	<u>s</u>	
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the physical	ysi	cal, chemical and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Delayed and immediate effe	<u>cts</u>	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 effe	cts	
Not available.		
Conclusion/Summary [Pro	du	ct] : Not available.
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irritation)

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.	

Conclusion/Summary [Product]	: The product does not meet the criteria to be considered as having endocrine
	disrupting properties according to the criteria set out in either Regulation (EC)
	No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity							
Product/ingredient name titanium dioxide		Result Acute - LC50 - Marine water Fish - Mummichog - <i>Fundulus heteroclitus</i> >1000000 μg/l [96 hours] <u>Effect</u> : Mortality					
		Acute - LC50 - Crustaceans - \ <u>Age</u> : <24 hours 3 mg/l [48 hours <u>Effect</u> : Mortality	Water flea - <i>Ceriodap</i> s]	hnia dubia - Neonate			
2-(2-butoxyethoxy)ethanol		Acute - LC50 - Fish - Bluegill - <u>Size</u> : 33 to 75 n 1300000 μg/l [9 <u>Effect</u> : Mortality	<i>Lepomis macrochiru:</i> nm 16 hours]	s			
Ammonia		Acute - LC50 - Fish - Western 37 ppm [96 hou <u>Effect</u> : Mortality	mosquitofish - <i>Gamb</i> ırs]	<i>busia affinis</i> - Adult			
2-Butoxyethanol		Acute - LC50 - Fish - Inland sil <u>Size</u> : 40 to 100 1250000 μg/l [9 <u>Effect</u> : Mortality	verside - <i>Menidia ber</i> mm l6 hours]	yllina			
		Acute - LC50 - Crustaceans - (<i>crangon</i> 800000 μg/l [48 <u>Effect</u> : Mortality	Common shrimp, san 8 hours]	d shrimp - <i>Crangon</i>			
1,2-benzisothiazol-3(2H)-one			cute Toxicity Test] norhynchus Mykiss				
		Reproduction T	phnia sp. Acute Immo est] nnia - <i>Daphnia Magna</i>				
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SECTION 12: Ecological information

3.7 mg/l [48 hours]

Acute - EC50 - Marine water

OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - Skeletonema Costatum 0.36 mg/l [72 hours]

Acute - NOEC - Marine water

OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - Skeletonema Costatum 0.15 mg/l [72 hours]

Conclusion/Summary [Product] : Not available.

12.2 Persistence and	degradability
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Product/ingredient name

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

Result

EU 24% [28 days]

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	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	-		Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
2-(2-butoxyethoxy)ethanol 2-Butoxyethanol 1,2-benzisothiazol-3(2H)-one		36.5981 67.3685 73.142

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	Μ	Т	vPvM	vP	vM
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

Mobility

: Not available. **Conclusion/Summary**

: 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]

SECTION 12: Ecological information

DECTION 12. Ecologi							
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- 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
Conclusion/Summary		The produc	t does not n	neet the crite	eria to be cons	idered as a	PBT or vPvB

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

12.6 Endocrine disrupting properties

Not available.

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Conclusion/Summary [Product]
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: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
European waste catalogue (EWC)	: 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.

SECTION 13: Disposal considerations

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO

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

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

Product/ingredient name		% Designation [Usage]					
TEKNOSAFE FLAME PROT 2-(2-butoxyethoxy)ethanol	≥90 ≤3	3 55 [Consu	3 55 [Consumer paint]				
Labelling	:	•	<u>.</u>				
Other EU regulations							
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed						
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed						
Explosive precursors	: Not applicab	le.					
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Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations					
<u>Austria</u>					
Limitation of the use of organic solvents	:	Permitted			
<u>Belgium</u>					
Czech Republic					
Storage code	:	IV			
<u>Denmark</u>					
Fire class	:	IV-1			
Executive Order No. 1795/2015					

Ingredient name	Annex I Section A	Annex I Section B		
titanium dioxide	Listed	-		

MAL-code	:	00-1
Protection based on MAL	:	According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

General: Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 00-1 **Application:** When spraying in existing* spray booths, if the operator is outside the spray zone.

- Arm protectors must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Full mask with combined filter, coveralls and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

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Caution The regulations contain other stipulations in addition to the above.

		*See Regulations.				
Restrictions on use		Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.				
List of undesirable substances	: Not listed					
Carcinogenic waste	c waste : Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.					
Finland						
France						
Social Security Code, Articles L 461-1 to L 461-7		2-(2-butoxyethoxy)ethanolRG 842-ButoxyethanolRG 84				
Reinforced medical surveillance		Act of July 11, 1977 determining the list of activities which require reinforce medical surveillance: not applicable	ed			
<u>Germany</u>						
Storage class (TRGS 510)	:	10				
Hazardous incident ordina	nce					
This product is not controlled	d un	der the Germany Hazardous Incident Ordinance.				
Hazard class for water	:	2				
Technical instruction on a	ir qı	uality control (TA Luft)				
Number [Class]		Description	%			
5.2.1		Total dust	45.5			
5.2.5		Organic substances	3.9			
5.2.5 [l]		Organic substances	1.2			
AOX		The product contains organically bound halogens and can contribute to the value in waste water.	e AOX			
<u>Italy</u>						
D.Lgs. 152/06	1	Not determined.				
Netherlands						
Water Discharge Policy (ABM)	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>						
Product registration number	:	672135				
<u>Sweden</u>						
Switzerland						
VOC content	:	Exempt.				
International regulations						
Chemical Weapon Convent	ion	List Schedules I, II & III Chemicals				
Not listed.						
Montreal Protocol Not listed.						
Stockholm Convention on F Not listed.	Pers	istent Organic Pollutants				
Rotterdam Convention on F Not listed.	<u>Prio</u>	Informed Consent (PIC)				
UNECE Aarhus Protocol on POPs and Heavy Metals						
Not listed.	<u>PU</u>	rs and neavy metals				

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SECTION 15: Regulatory information

15.2 Chemical safety assessment

: 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	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification		
Skin Sens. 1, H317	Calculation method		

Full text of abbreviated H statements

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]

Acute Tox. 2	ACUTE TOXICITY - Category 2
	ACUTE TOXICITY - Category 3
	ACUTE TOXICITY - Category 4
	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 SENSITISATION - Category 1A
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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SECTION 16: Other information

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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