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

SAFETY DATA SHEET



TEKNOLUX AQUA 1728-62 - TS 21459

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

1.1 Product identifier

Product name : TEKNOLUX AQUA 1728-62 - TS 21459

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 Aquatic Chronic 3, H412

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. H412 - Harmful to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	P280 - Wear protective gloves. P273 - Avoid release to the environment. 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.	
Storage	Not applicable.	
Disposal	P501 - Dispose of contents and container in accordance with all local, regional national and international regulations.	al,

SECTION 2: Hazards identification

Hazardous ingredients	: Contains: ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate; 2-Propenoic acid, reaction products with dipentaerythritol; 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) and 2-methyl-2H-isothiazol-3-one
Supplemental label elements	: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

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] [*]
ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate	REACH #: 01-2119987994-10 EC: 282-810-6 CAS: 84434-11-7	≤3	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤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]
2-Propenoic acid, reaction products with dipentaerythritol	REACH #: 01-2119980666-22 CAS: 1384855-91-7	<1	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3, H412	-	[1]
Triethylamine	REACH #: 01-2119475467-26 EC: 204-469-4 CAS: 121-44-8 Index: 612-004-00-5	≤0.3	Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 460 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 3 mg/l STOT SE 3, H335: $C \ge 1\%$	[1] [2]
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	≤0.013	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5	[1]

			Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	mg/lSkin 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] = 100M [Chronic] = 100	
2-methyl-2H-isothiazol- 3-one	EC: 220-239-6 CAS: 2682-20-4	<0.01	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.11 mg/l Skin Sens. 1, H317: C $\geq 0.0015\%$ M [Acute] = 10 M [Chronic] = 1	[1]
			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.

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

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

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	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.
	s and effects, both acute and delayed
Over-exposure signs/sympto	
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
1.3 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 fr	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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide 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 in 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.

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

SECTION 6: Accidental release measures

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). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	СС	ontainment 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.
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. Avoid release to the environment. 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	: Not available.
solutions	

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-Butoxyethanol	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours.
Triethylamine	 PEAK: 40 ppm, 4 times per shift, 30 minutes. PEAK: 200 mg/m³, 4 times per shift, 30 minutes. Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 2 ppm 8 hours. TWA: 8.4 mg/m³ 8 hours. PEAK: 3 ppm, 4 times per shift, 15 minutes.
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)	PEAK: 12.6 mg/m ³ , 4 times per shift, 15 minutes. Regulation on Limit Values - MAC (Austria, 4/2021). [5-chloro- 2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-di- hydroisothiazol-3-one (mixture in the ratio 3:1)] Skin sensitiser.
2-methyl-2H-isothiazol-3-one	TWA: 0.05 mg/m ³ 8 hours. Regulation on Limit Values - MAC (Austria, 4/2021). [5-chloro- 2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-di- hydroisothiazol-3-one (mixture in the ratio 3:1)] Skin sensitiser.
2-Butoxyethanol	TWA: 0.05 mg/m ³ 8 hours. Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours.
Triethylamine	 STEL: 50 ppm 15 minutes. STEL: 246 mg/m³ 15 minutes. Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 0.5 ppm 8 hours. TWA: 2.07 mg/m³ 8 hours. STEL: 1 ppm 15 minutes. STEL: 4.14 mg/m³ 15 minutes.
2-Butoxyethanol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 98 mg/m ³ 8 hours. Limit value 15 min: 246 mg/m ³ 15 minutes.
Triethylamine	Limit value 15 min: 50 ppm 15 minutes. Limit value 8 hours: 20 ppm 8 hours. Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 15 min: 12.6 mg/m ³ 15 minutes. Limit value 15 min: 3.4 mg/m ³ 8 hours. Limit value 15 min: 3 ppm 15 minutes.
2-Butoxyethanol	Limit value 8 hours: 2 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ 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.
Triethylamine	ELV: 30 ppm 8 hours. ELV: 20 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 12.6 mg/m ³ 15 minutes. STELV: 3 ppm 15 minutes.

	ELV: 8.4 mg/m ³ 8 hours. ELV: 2 ppm 8 hours.
2-Butoxyethanol	Department of labour inspection (Cyprus, 7/2021). Absorbed through skin.
Triethylamine	STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. Department of labour inspection (Cyprus, 7/2021). Absorbed
	through skin. STEL: 3 ppm 15 minutes. STEL: 12.6 mg/m ³ 15 minutes. TWA: 2 ppm 8 hours.
	TWA: 8.4 mg/m ³ 8 hours.
2-Butoxyethanol	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 100 mg/m ³ 8 hours. TWA: 20.4 ppm 8 hours. STEL: 200 mg/m ³ 15 minutes.
riethylamine	STEL: 40.8 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 8 mg/m ³ 8 hours. TWA: 1.904 ppm 8 hours. STEL: 12 mg/m ³ 15 minutes. STEL: 2.856 ppm 15 minutes.
-Butoxyethanol	STEL: 2.856 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Absorber
	through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 246 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes.
riethylamine	Working Environment Authority (Denmark, 6/2022). Absorber through skin. TWA: 1 ppm 8 hours. TWA: 4.1 mg/m ³ 8 hours. STEL: 12.6 mg/m ³ 15 minutes. STEL: 3 ppm 15 minutes.
P-Butoxyethanol	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 98 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. STEL: 246 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes.
riethylamine	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 8.4 mg/m ³ 8 hours. TWA: 2 ppm 8 hours. STEL: 12.6 mg/m ³ 15 minutes. STEL: 3 ppm 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: 98 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
riethylamine	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 2 ppm 8 hours. TWA: 8.4 mg/m ³ 8 hours. STEL: 3 ppm 15 minutes. STEL: 12.6 mg/m ³ 15 minutes.

SECTION 8: Exposure controls/personal protection Institute of Occupational Health, Ministry of Social Affairs 2-Butoxvethanol (Finland, 10/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 250 mg/m³ 15 minutes. Triethylamine Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. STEL: 1 ppm 15 minutes. STEL: 4.2 mg/m³ 15 minutes. Ministry of Labor (France, 10/2022). Absorbed through skin. 2-Butoxyethanol Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 10 ppm 8 hours. TWA: 49 mg/m³ 8 hours. STEL: 246 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. Ministry of Labor (France, 10/2022). Absorbed through skin. Triethylamine Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 3 ppm 15 minutes. STEL: 12.6 mg/m³ 15 minutes. TWA: 4.2 mg/m³ 8 hours. TWA: 1 ppm 8 hours. 2-Butoxyethanol TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 49 mg/m³ 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/m³ 8 hours. PEAK: 98 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. Triethylamine TWA: 4.2 mg/m³ 8 hours. PEAK: 8.4 mg/m³ 15 minutes. TWA: 1 ppm 8 hours. PEAK: 2 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 1 ml/m³ 8 hours. PEAK: 2 ppm, 4 times per shift, 15 minutes. TWA: 4.2 mg/m³ 8 hours. PEAK: 8.4 mg/m³, 4 times per shift, 15 minutes. PEAK: 2 ml/m³, 4 times per shift, 15 minutes. DFG MAC-values list (Germany, 7/2022). Skin sensitiser. 2-methyl-2H-isothiazol-3-one Presidential Decree 307/1986: Occupational exposure limit 2-Butoxyethanol values (Greece, 9/2021). Absorbed through skin. TWA: 25 ppm 8 hours. TWA: 120 mg/m³ 8 hours. Triethylamine Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin.

TWA: 10 ppm 8 hours. TWA: 40 mg/m³ 8 hours. STEL: 15 ppm 15 minutes. STEL: 60 mg/m³ 15 minutes.

SECTION 8: Exposure controls/personal protection 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed 2-Butoxyethanol through skin. Skin sensitiser. Inhalation sensitiser. TWA: 98 mg/m³ 8 hours. PEAK: 246 mg/m³ 15 minutes. PEAK: 50 ppm 15 minutes. TWA: 20 ppm 8 hours. Triethylamine 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 8.4 mg/m³ 8 hours. PEAK: 12.6 mg/m³ 15 minutes. PEAK: 3 ppm 15 minutes. TWA: 2 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. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Triethylamine Absorbed through skin. STEL: 12.6 mg/m³ 15 minutes. STEL: 3 ppm 15 minutes. TWA: 8.4 mg/m³ 8 hours. TWA: 2 ppm 8 hours. NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU 2-Butoxyethanol 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. Triethylamine NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 2 ppm 8 hours. OELV-8hr: 8.4 mg/m³ 8 hours. OELV-15min: 3 ppm 15 minutes. OELV-15min: 12.6 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. Triethylamine Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 2 ppm 8 hours. 8 hours: 8.4 mg/m³ 8 hours. Short Term: 3 ppm 15 minutes. Short Term: 12.6 mg/m³ 15 minutes. 2-Butoxyethanol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 98 mg/m³ 8 hours. TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m³ 15 minutes. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Triethylamine STEL: 3 ppm 15 minutes. TWA: 8.4 mg/m³ 8 hours. STEL: 12.6 mg/m³ 15 minutes. TWA: 2 ppm 8 hours.

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SECTION 8: Exposure controls/personal protection Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). 2-Butoxvethanol Absorbed through skin. TWA: 50 mg/m³ 8 hours. TWA: 10 ppm 8 hours. STEL: 100 mg/m³ 15 minutes. STEL: 20 ppm 15 minutes. Triethylamine Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 8.4 mg/m³ 8 hours. TWA: 2 ppm 8 hours. STEL: 12.6 mg/m³ 15 minutes. STEL: 3 ppm 15 minutes. 2-Butoxyethanol Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m³ 15 minutes. Triethylamine Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. TWA: 2 ppm 8 hours. TWA: 8.4 mg/m³ 8 hours. STEL: 3 ppm 15 minutes. STEL: 12.6 mg/m³ 15 minutes. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list 2-Butoxyethanol of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m³ 15 minutes. Triethylamine EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 2 ppm 8 hours. TWA: 8.4 mg/m³ 8 hours. STEL: 3 ppm 15 minutes. STEL: 12.6 mg/m³ 15 minutes. 2-Butoxyethanol Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 100 mg/m³ 8 hours. STEL,15-min: 246 mg/m³ 15 minutes. OEL, 8-h TWA: 20.4 ppm 8 hours. STEL,15-min: 50 ppm 15 minutes. Ministry of Social Affairs and Employment, Legal limit values Triethylamine (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 4.2 mg/m³ 8 hours. STEL,15-min: 12.6 mg/m³ 15 minutes. STEL.15-min: 3 ppm 15 minutes. OEL, 8-h TWA: 1 ppm 8 hours. 2-Butoxyethanol FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 10 ppm 8 hours. TWA: 50 mg/m³ 8 hours. Triethylamine FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 2 ppm 8 hours. TWA: 8 mg/m³ 8 hours. Date of issue/Date of revision 10/26 : 19/08/2024

SECTION 8: Exposure contract 2-Butoxyethanol	Regulation of the Minister of Family, Labor and Social Policy
Triethylamine	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. 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: 3 mg/m ³ 8 hours. STEL: 9 mg/m ³ 15 minutes.
2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours.
Triethylamine	Portuguese Institute of Quality (Portugal, 11/2014). Absorbed through skin. TWA: 1 ppm 8 hours. STEL: 3 ppm 15 minutes.
2-Butoxyethanol	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.
Triethylamine	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 8.4 mg/m ³ 8 hours. VLA: 2 ppm 8 hours. Short term: 12.6 mg/m ³ 15 minutes. Short term: 3 ppm 15 minutes.
2-Butoxyethanol	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. STEL: 50 ppm 15 minutes.
Triethylamine	Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 8.4 mg/m ³ 8 hours. TWA: 2 ppm 8 hours. STEL: 12.6 mg/m ³ 15 minutes. STEL: 3 ppm 15 minutes.
2-Butoxyethanol	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/m ³ 8 hours. TWA: 20 ppm 8 hours. KTV: 246 mg/m ³ , 4 times per shift, 15 minutes. KTV: 50 ppm, 4 times per shift, 15 minutes.
Triethylamine	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 8.4 mg/m ³ 8 hours. TWA: 2 ppm 8 hours. KTV: 12.6 mg/m ³ , 4 times per shift, 15 minutes. KTV: 3 ppm, 4 times per shift, 15 minutes.

SECTION 8: Exposure controls/personal protection National institute of occupational safety and health (Spain, 2-Butoxyethanol 4/2022). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. STEL: 245 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. Triethylamine National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin. TWA: 2 ppm 8 hours. TWA: 8.4 mg/m³ 8 hours. STEL: 3 ppm 15 minutes. STEL: 12.6 mg/m³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden, 2-Butoxyethanol 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. Triethylamine Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. TWA: 1 ppm 8 hours. TWA: 4.2 mg/m³ 8 hours. STEL: 3 ppm 15 minutes. STEL: 12.6 mg/m³ 15 minutes. SUVA (Switzerland, 1/2023). 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. Triethylamine SUVA (Switzerland, 1/2023). TWA: 1 ppm 8 hours. TWA: 4.2 mg/m³ 8 hours. STEL: 2 ppm 15 minutes. STEL: 8.4 mg/m³ 15 minutes. reaction mass of: 5-chloro-2-methyl-SUVA (Switzerland, 1/2023). 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 EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed 2-Butoxyethanol 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). 2-(2-butoxyethoxy)ethanol TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m³ 8 hours. STEL: 101.2 mg/m³ 15 minutes. Triethylamine EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 17 mg/m³ 15 minutes. TWA: 2 ppm 8 hours. TWA: 8 mg/m³ 8 hours. STEL: 4 ppm 15 minutes. 2-aminoethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 7.6 mg/m³ 15 minutes.

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STEL: 3 ppm 15 minutes. TWA: 1 ppm 8 hours. TWA: 2.5 mg/m³ 8 hours.

: No previous validation

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SECTION 8: Exposure controls/personal protection

Product/ingredient	name Exposure indices
No exposure indices known.	• • • • • • • • • • • • • • • • • • • •
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 shif 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 the 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.	

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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, 1/2023) 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.
2-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.
procedures Europe	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

ssment 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

Туре	Exposure	Value	Population	Effects
DNEL	Long term Oral	0.5 mg/kg	General	Systemic
				0
DNEL	Long term Dermal			Systemic
DNEL		0.87 mg/m³		Systemic
DNEL	Long term Dermal	1.4 mg/kg bw/day	Workers	Systemic
DNEL	Long term	4.93 mg/m ³	Workers	Systemic
		6.2 mg/kg	Conorol	Svotomio
	Long term Oral	•••		Systemic
	Short tarm Oral			Sustamia
DINEL	Short term Oral	0		Systemic
				Curatamia
DNEL		59 mg/m°	-	Systemic
		00		O. un traversite
DNEL		98 mg/m ³	vvorkers	Systemic
		4 4 7	0	1
DNEL		147 mg/m ³		Local
		0.40		1
DNEL		246 mg/m ³	vvorkers	Local
		400	0	0
DNEL		426 mg/m ³		Systemic
		1001		0
DNEL			vvorkers	Systemic
DNEL	0	8.4 mg/m³	vvorkers	Local
		0.4		
DNEL	Long term Inhalation	8.4 mg/m³	vvorkers	Systemic
DNEL	Long term Dermal	12.1 mg/	Workers	Systemic
		kg bw/day		
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	DNELLong term OralDNELLong term DermalDNELLong termInhalationDNELLong term DermalDNELLong term DermalDNELLong term OralDNELLong term OralDNELShort term OralDNELLong termInhalationDNELLong termInhalationDNELShort term OralDNELShort termInhalationDNELShort termInhalationDNELShort termInhalationDNELShort termInhalationDNELShort termInhalationDNELShort termInhalationDNELLong termInhalationDNELLong termInhalationDNELLong termInhalationDNELLong termInhalationDNELLong termInhalationDNELLong term	DNELLong term Oral0.5 mg/kg bw/dayDNELLong term Dermal0.5 mg/kg bw/dayDNELLong term0.87 mg/m³Inhalation1.4 mg/kg bw/dayDNELLong term Dermal1.4 mg/kg bw/dayDNELLong term Dermal1.4 mg/kg bw/dayDNELLong term Oral6.3 mg/kg bw/dayDNELLong term Oral98 mg/m³Inhalation98 mg/m³DNELLong term98 mg/m³Inhalation147 mg/m³DNELShort term146 mg/m³Inhalation1091 mg/ m³DNELShort term1091 mg/ m³Inhalationm³DNELLong term8.4 mg/m³InhalationDNELLong term8.4 mg/m³InhalationDNELLong term8.4 mg/m³Inhalation12.1 mg/	DNELLong term Oral0.5 mg/kg bw/dayGeneral populationDNELLong term Dermal0.5 mg/kg bw/dayGeneral populationDNELLong term0.87 mg/m³General populationDNELLong term Dermal1.4 mg/kg bw/dayWorkersDNELLong term Dermal1.4 mg/kg bw/dayWorkersDNELLong term Oral6.3 mg/kg bw/dayGeneral populationDNELLong term147 mg/m³General populationDNELLong term147 mg/m³General populationDNELShort term147 mg/m³General populationDNELShort term1091 mg/ m³WorkersDNELShort term1091 mg/ m³WorkersDNELLong term8.4 mg/m³WorkersDNELLong term8.4 mg/m³Workers

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CTION 8: Exposure cont	-	-			
	DNEL	Short term	12.6 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	12.6 mg/m ³	Workers	Systemic
		Inhalation			
reaction mass of: 5-chloro-2-methyl-	DNEL	Long term	0.02 mg/m ³		Local
4-isothiazolin-3-one [EC no.		Inhalation		population	
247-500-7] and 2-methyl-2H-					
isothiazol-3-one [EC no. 220-239-6]					
(3:1)					
	DNEL	Long term	0.02 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	0.04 mg/m ³		Local
		Inhalation		population	
	DNEL	Short term	0.04 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term Oral	0.09 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term Oral	0.11 mg/	General	Systemic
			kg bw/day	population	
2-methyl-2H-isothiazol-3-one	DNEL	Long term	0.021 mg/	General	Local
		Inhalation	m ³	population	
	DNEL	Long term	0.021 mg/	Workers	Local
	האורי	Inhalation	m^3	Comercel	Curata mi-
	DNEL	Long term Oral	0.027 mg/	General	Systemic
	האורי	Chart tarma	kg bw/day	population	
	DNEL	Short term	0.043 mg/	General	Local
		Inhalation	m^{3}	population	
	DNEL	Short term	0.043 mg/ m³	Workers	Local
		Inhalation		Conorol	Sustamia
	DINEL		0		Systemic
	DNEL	Short term Oral	0.053 mg/ kg bw/day	General population	Systemic

PNECs

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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.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	1 - 4 hours (breakthrough time): $4H$ / Silver Shield® gloves.
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SECTION 8: Exposure controls/personal protection

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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	: Clear.
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-Butoxyethanol		171 to 171.5	339.8 to 340.7	IP 123-93
Flammability	: Not ava	ilable.		
Lower and upper explosion limit		Not applicable. Not applicable.		
Flash point	: Closed	cup: >100°C (>212	2°F)	
Auto-ignition temperature	:			
Ingredient name		°C	°F	Method
2-Propanol, 1-(2-butoxy-1-methylethoxy)		194	381.2	EU A.15
2-Butoxyethanol		230	446	DIN 51794
Decomposition temperature	: Not ava	ilable.		
рН	: 7.5 to 8	.5 [Conc. (% w/w):	100%]	
Viscosity	: Not ava	ilable.		
Solubility(ies)	:			
Not available.				
Solubility in water	: Not ava	ilable.		
Partition coefficient: n-octanol/ water	: Not app	olicable.		

	Va	apour Pres	sure at 20°C	Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
water	17.5	2.3					
2-Butoxyethanol	0.75006	0.1					
elative density	: Not	available.					
ensity	: 1.1	g/cm³					
apour density	: Not	available.					
xplosive properties	: Not	available.					
xidising properties	: Not	available.					
article characteristics							
ledian particle size	: Not	applicable.					

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

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Triethylamine	LD50 Oral	Rat	460 mg/kg	-
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-	LD50 Oral	Rat	53 mg/kg	-
3-one [EC no. 247-500-7]				
and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:				
1) 2-methyl-2H-isothiazol-	LC50 Inhalation Dusts and	Rat	0.11 mg/l	4 hours
3-one	mists	i tat	0.11 mg/i	4 110013

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

Acute toxicity estimates

Route	ATE value
Oral	99047.16 mg/kg
Dermal	146167.03 mg/kg
Inhalation (vapours)	211.75 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-	
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-	
	Eyes - Severe irritant	Rabbit	-	100 mg	-	
	Skin - Mild irritant	Rabbit	-	500 mg	-	
Triethylamine	Skin - Mild irritant	Rabbit	-	365 mg	-	
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, th	e classification o	riteria are	e not met.		
Sensitisation						
Conclusion/Summary <u>Mutagenicity</u>	: May cause an allergic skin	May cause an allergic skin reaction.				
Conclusion/Summary	Based on available data, the classification criteria are not met.					

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.

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 toxicity (single exposure)					

Pi	roduct/ingredient name	Category	Route of exposure	Target organs
Triethylamine		Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes : 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.
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.		

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SECTION 11: Toxicological information

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Delayeu anu inineulate enet	is as well as childred effects from short and long-term exposure
Short term exposure	
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 eff	ects
Not available.	
Conclusion/Summary	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

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
titanium 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-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water Acute LC50 800000 μg/l Marine water	Daphnia - <i>Daphnia magna</i> Crustaceans - <i>Crangon crangon</i>	48 hours 48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
2-methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water Acute LC50 0.07 ppm Fresh water	Daphnia - <i>Daphnia magna</i> Fish - <i>Oncorhynchus mykiss</i>	48 hours 96 hours

Conclusion/Summary : Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Conclusion/Summary : This product has not been tested for biodegradation.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2-Butoxyethanol	0.81	-	Low
Triethylamine	1.45	<0.5	Low

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

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SECTION 12: Ecological information

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.

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 meth	nods
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.
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.	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.

SECTION 14: Transport information

14.6 Special	precautions	f
user		

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 <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]	
TEKNOLUX AQUA 1728-6	62	≥90	3	
Labelling	:	•		
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 applicat	ole.		
Ozone depleting substand	<u>ces (1005/2009/E</u>	<u>EU)</u>		
Not listed.				
Prior Informed Consent (F Not listed.	<u>PIC) (649/2012/E</u>	<u>U)</u>		
Persistent Organic Polluta Not listed.	ants			
Seveso Directive				
This product is not controlle	ed under the Seve	eso Directi	tive.	
National regulations				
<u>Austria</u>				
VbF class	: Not regulate	ed.		
Limitation of the use of organic solvents	: Permitted.			
Czech Republic				
Storage code	: IV			
<u>Denmark</u>				
Danish fire class	: IV-1			
Executive Order No. 1795	<u>/2015</u>			

Ingredient name			Annex I Section A	Annex I Section B		
titanium dioxide			Listed	-		
MAL-code	: 1-	6	4			
Protection based on MAL		ccording to the regulations on wo ipulations apply to the use of per				
	co clo sh	eneral: Gloves must be worn for al overalls/protective clothing must be othes do not adequately protect skir ield must be worn in work involving use, other recommended use of eye	worn when soiling is so against contact with th spattering if a full mask	great that regular wo ne product. A face < is not required. In th		
	re	all spraying operations in which the spiratory protection and arm protect opropriate or as instructed.				
	Ap tre wo typ bo ro typ ro	AL-code: 1-6 oplication: When using scraper or eatments in a spray booth where the orking in similar new* facilities of the be where the operator is working ins boths and cabins with non-atomizing ller, etc, for pre- and post-treatment be, if the operator is inside the spray ller, etc. for pre- and post-treatment bin.	e operator is outside the e combined-cabin, spray side the spray zone. Wh g guns. When using scr is in cabins or booths of y zone. When using sc	e spray zone and whe y-cabin and spray-bo nen spraying in new* raper or knife, brush, f the existing* facility raper or knife, brush,		
	- Protective clothing must be worn.					
	During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.					
	- Gas filter mask and protective clothing must be worn.					
	When spraying in existing* spray booths, if the operator is outside the spray zone.					
	- /	Air-supplied full mask and protective	e clothing must be worn			
		uring non-atomising spraying in exis bin and spray-booth type where the				
	- 4	Air-supplied half mask, protective clo	othing and eye protection	on must be worn.		
	ор	uring all spraying where atomisation perator is inside the spray zone and booth.				
	- /	Air-supplied full mask, protective clo	thing and hood must be	e worn.		
	ra	'ying: Items for drying/drying ovens ck trolleys, etc, must be equipped w mes from wet items from passing th	ith a mechanical exhau	ust system to prevent		
	W	blishing: When polishing treated so hen machine grinding, eye protectio prn.				
	Ca	aution The regulations contain othe	er stipulations in additio	n to the above.		

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SECTION 15: Regulatory information

g		- j		
		*See Regulations.		
Restrictions on use	1	Not to be used by professional users below 18 years of Working Environment Authorities Executive Order reg		
List of undesirable substances	1	Not listed		
Carcinogenic waste	1	Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.		
<u>Finland</u>				
<u>France</u>				
Social Security Code, Articles L 461-1 to L 461-7		2-Butoxyethanol Triethylamine	RG 84 RG 49, RG 49bis	
Reinforced medical surveillance	1	Act of July 11, 1977 determining the list of activities w medical surveillance: not applicable	hich require reinforced	
<u>Germany</u>				
Storage class (TRGS 510)	:	10		
Hazardous incident ordina	nc	<u>e</u>		
This product is not controlled	lu	nder the Germany Hazardous Incident Ordinance.		
Hazard class for water	:	2		
Technical instruction on air quality control	1	TA-Luft Number 5.2.5: 10.2% TA-Luft Class II - Number 5.2.7.1.1: 0.4% TA-Luft Class I - Number 5.2.5: 0.2%		
ΑΟΧ	;	The product contains organically bound halogens and value in waste water.	can contribute to the AOX	
<u>Italy</u>				
D.Lgs. 152/06	:	Not determined.		
Netherlands				
Ministry of Social Affairs a	nd	Employment (SZW) - Carcinogenic substances and	d processes, mutagenic or	

reprotoxic substances

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
ethanol complexe derivatives of oil and charcoal	Listed Listed	-	Fertility 1A -	Development 1A -	Listed -
Water Discharge Polic (ABM)	environm	ent (carcinogenicit	ostances with hazard y/ mutagenicity/ rep ontamination effort:	rotoxicity/ bioacum	
<u>Norway</u>					
<u>Sweden</u>					
Switzerland					
VOC content	: Exempt.				
nternational regulation	<u>s</u>				
Chemical Weapon Conv	vention List Sche	edules I, II & III Ch	emicals		
Not listed.					
Montreal Protocol					
Not listed.					
Stockholm Convention Not listed.	on Persistent Or	<u>ganic Pollutants</u>			
Rotterdam Convention	<u>on Prior Informe</u>	d Consent (PIC)			
UNECE Aarhus Protoco	l on POPs and H	<u>eavy Metals</u>			

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SECTION 15: Regulatory information

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	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
	, , , , , , , , , , , , , , , , , , ,

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

Classification	Justification
, -	Calculation method Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic 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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful 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 Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
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
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
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
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SECTION 16: Other information	
Skin Sens. 1A Skin Sens. 1B STOT SE 3	SKIN SENSITISATION - Category 1A SKIN SENSITISATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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Version	: 1
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Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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