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 - NCS S0502Y

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

1.1 Product identifier Product name

: TEKNOLUX AQUA 1728-62 - NCS S0502Y

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.

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	1	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	$\begin{array}{l} mg/l \\ Skin Corr. 1C, \\ H314: C \geq 0.6\% \\ Eye Dam. 1, H318: \\ C \geq 0.6\% \\ Eye Irrit. 2, H319: \\ 0.06\% \leq C < 0.6\% \\ Skin Sens. 1, H317: \\ C \geq 0.0015\% \\ M [Acute] = 100 \\ M [Chronic] = 100 \end{array}$	
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: $C \ge 0.0015\%$ 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

4.1 Description of first a	id 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.
	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.
Triethylamine	TWA: 20 ppm 0 hours. TWA: 98 mg/m ³ 8 hours. PEAK: 40 ppm, 4 times per shift, 30 minutes. PEAK: 200 mg/m ³ , 4 times per shift, 30 minutes. Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 2 ppm 8 hours. TWA: 8.4 mg/m ³ 8 hours.
	PEAK: 3 ppm, 4 times per shift, 15 minutes. PEAK: 12.6 mg/m ³ , 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)	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.
	TWA: 0.05 mg/m ³ 8 hours.
2-Butoxyethanol	Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
Triethylamine	Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 0.5 ppm 8 hours. TWA: 2.07 mg/m ³ 8 hours. STEL: 1 ppm 15 minutes. STEL: 4.14 mg/m ³ 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/m³ 8 hours. Limit value 15 min: 246 mg/m³ 15 minutes. Limit value 15 min: 50 ppm 15 minutes. Limit value 8 hours: 20 ppm 8 hours.
Triethylamine	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 8 hours: 8.4 mg/m ³ 8 hours.
	Limit value 15 min: 3 ppm 15 minutes. Limit value 8 hours: 2 ppm 8 hours.
2-Butoxyethanol	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 246 mg/m ³ 15 minutes.
Triethylamine	STELV: 50 ppm 15 minutes. ELV: 98 mg/m ³ 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. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
Triethylamine	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.
2-Butoxyethanol	TWA: 8.4 mg/m ³ 8 hours. 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. STEL: 40.8 ppm 15 minutes.
riethylamine	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	Working Environment Authority (Denmark, 6/2022). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 246 mg/m ³ 15 minutes.
riethylamine	STEL: 50 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Absorbed 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.
-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.
riethylamine	STEL: 246 mg/m ³ 15 minutes. 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 2-Butoxvethanol Institute of Occupational Health, Ministry of Social Affairs (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 2-Butoxyethanol Presidential Decree 307/1986: Occupational exposure limit 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.

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-Butoxyethanol 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 : 24/10/2024 Date of previous issue : No previous validation Version :1

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2-Butoxyethanol Triethylamine	Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 98 mg/m ³ 8 hours. STEL: 200 mg/m ³ 15 minutes. 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.
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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. STEL: 3 ppm 15 minutes.

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TWA: 1 ppm 8 hours. TWA: 2.5 mg/m³ 8 hours.

SECTION 8: Exposure controls/personal protection

	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 shift at the end of the week. Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.
No exposure indices known.	
2-Butoxyethanol	 DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of 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 o 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.	

SECTION 8: Exposure controls/personal protection

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	nce should be made to monitoring standards, such as the following: ean Standard EN 689 (Workplace atmospheres - Guidance for the ment of exposure by inhalation to chemical agents for comparison with limit

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

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
ethyl phenyl(2,4,6-trimethylbenzoyl)	DNEL	Long term Oral	0.5 mg/kg	General	Systemic
ohosphinate			bw/day	population	
	DNEL	Long term Dermal	0.5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	0.87 mg/m³		Systemic
		Inhalation		population	
	DNEL	Long term Dermal	1.4 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	4.93 mg/m ³	Workers	Systemic
2-Butoxyethanol	DNEL	Inhalation Long term Oral	6.3 mg/kg	General	Systemic
	DINEL		•••		Systemic
	DNEL	Short term Oral	bw/day 26.7 mg/	population General	Systemic
	DNEL		kg bw/day	population	Systemic
	DNEL	Long term	59 mg/m ³	General	Systemic
	DINEL	Inhalation	59 mg/m	population	Systemic
	DNEL	Long term	98 mg/m³	Workers	Systemic
	DNEL	Inhalation	90 mg/m	VIOINEIS	Systemic
	DNEL	Short term	147 mg/m³	General	Local
	DNEL	Inhalation	147 mg/m	population	LUCAI
	DNEL	Short term	246 mg/m ³	Workers	Local
	DNEL	Inhalation	240 mg/m	VUINEIS	LUCAI
	DNEL	Short term	426 mg/m ³	General	Systemic
		Inhalation	+∠0 mg/m	population	Cysternic
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m ³	VV OINEIS	Cysternic
Triethylamine	DNEL	Long term	8.4 mg/m ³	Workers	Local
i nouryiannine		Inhalation	0. 4 mg/m	VV OINEIS	
	DNEL	Long term	8.4 mg/m ³	Workers	Systemic
		Inhalation	0.4 mg/m		
	DNEL	Long term Dermal	12.1 mg/	Workers	Systemic
			kg bw/day		Cysternio

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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>Jres</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

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: White.
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and	:
boiling range	

	°C	°F	Method
	100	212	
	171 to 171.5	339.8 to 340.7	IP 123-93
: Not ava	ailable.		
: Closed	cup: >100°C (>	212°F)	
:			
	°C	°F	Method
у)	194	381.2	EU A.15
	230	446	DIN 51794
: Not ava	ailable.		
: 7.5 to 8	8.5 [Conc. (% w/	/w): 100%]	
: Not ava	ailable.		
:			
: Not ava	ailable.		
	: Lower: Upper: : Closed : y) : Not ava : 7.5 to 8 : Not ava :	100 171 to 171.5 : Not available. : Lower: Not applicable. : Upper: Not applicable. : Closed cup: >100°C (> : (Y) 194 230 : Not available. : 7.5 to 8.5 [Conc. (% w/ : Not available.	100 212 171 to 171.5 339.8 to 340.7 : Not available. . : Lower: Not applicable. . Upper: Not applicable. . : Closed cup: >100°C (>212°F) . : °C °F y) 194 381.2 230 446 : Not available. . : 7.5 to 8.5 [Conc. (% w/w): 100%] . : Not available. . : Not available. .

Partition coefficient: n-octanol/	1	Not applicable.
water		

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Vapour pressure

	V	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					
Relative density	: Not	available.					
Density	: 1.1	g/cm³					
Vapour density	: Not	available.					
Explosive properties	: Not	available.					
Oxidising properties	: Not	available.					
Particle characteristics							
Median particle size	: Not	applicable.					
.2 Other information							
No additional information.							
SECTION 10: Stabili	ty and re	eactivity	,				
0.1 Reactivity	: No spe	cific test dat	ta related to reacti	vity available fo	or this produ	ict or its ingredient	
0.2 Chemical stability	: The pro	oduct is stab	ble.				
0.3 Possibility of azardous reactions	: Under	normal conc	litions of storage a	and use, hazaro	lous reactio	ons will not occur.	
0.4 Conditions to avoid	: No spe	cific 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 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:	LD50 Oral LD50 Oral	Rat Rat	460 mg/kg 53 mg/kg	-
2-methyl-2H-isothiazol- 3-one	LC50 Inhalation Dusts and mists	Rat	0.11 mg/l	4 hours

Conclusion/Summary

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

Acute toxicity estimates

Route	ATE value		
Dermal	99154.59 mg/kg 146409.53 mg/kg 211.99 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, the	e classification o	riteria are	e not met.	
<u>Sensitisation</u>					
Conclusion/Summary Mutagenicity	: 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 toxi	<u>:ity (single exposure)</u>

Product/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 innieulale enec	ts as well as childric 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 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 myki</i> ss	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	LogPow	BCF	Potential
2-Butoxyethanol	0.81	-	Low
Triethylamine	1.45	<0.5	Low

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

ods
: 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.
: 080112
: 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.
: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

-				
	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	9006	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADN

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

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.

SECTION 14: Transport information

14.7 Maritime transport in bulk according to IMO instruments

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

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]	
TEKNOLUX AQUA 1728-62	≥90	3	
Labelling :	I		
ther EU regulations			
Industrial emissions : Not I (integrated pollution prevention and control) - Air	isted		
Industrial emissions : Not I (integrated pollution prevention and control) - Water	isted		
Explosive precursors : Not a	applicable.		
Ozone depleting substances (1005 Not listed.	5/2009/EU <u>)</u>		
Prior Informed Consent (PIC) (649/ Not listed.	/ <u>2012/EU)</u>		
Persistent Organic Pollutants Not listed.			
<u>Seveso Directive</u> This product is not controlled under t l <mark>ational regulations</mark>	he Seveso Direct	ive.	
<u>Austria</u>			
	regulated.		
Limitation of the use of : Pern organic solvents	nitted.		
Czech Republic			
Storage code : IV			
<u>Denmark</u>			
Danish fire class : IV-1			
Executive Order No. 1795/2015			
Ingredient name		Annex I Section A	Annex I Section B
ingreulent name			

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SECTION 15: Regulatory information

 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: 2-6

Application: When using scraper or knife, brush, roller etc. for pre- and posttreatments in a spray booth where the operator is outside the spray zone and when working in similar new* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns.

- Protective clothing must be worn.

When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- 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 clothing must be worn.

During non-atomising spraying in existing* facilities of the combined-cabin, spraycabin and spray-booth type where the operator is working inside the spray zone. 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.

- Air-supplied half mask, protective clothing and eye protection 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.

- Air-supplied full mask, protective clothing 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.

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.

SECTION 15: Regulatory information

SECTION 15: Regula	/ Information	
List of undesirable substances	lot listed	
Carcinogenic waste	Vaste containers must be labeled: Contains y Danish working environment legislation or	
<u>Finland</u>		
<u>France</u>		
Social Security Code, Articles L 461-1 to L 461-7	-Butoxyethanol riethylamine	RG 84 RG 49, RG 49bis
Reinforced medical surveillance	ct of July 11, 1977 determining the list of ac nedical surveillance: not applicable	tivities which require reinforced
<u>Germany</u>		
Storage class (TRGS 510)	0	
Hazardous incident ordina		
This product is not controlled	er the Germany Hazardous Incident Ordinar	nce.
Hazard class for water		
Technical instruction on air quality control	A-Luft Number 5.2.5: 10.2% A-Luft Class II - Number 5.2.7.1.1: 0.4% A-Luft Class I - Number 5.2.5: 0.2%	
ΑΟΧ	he product contains organically bound halog alue in waste water.	gens and can contribute to the AOX
<u>Italy</u>		
D.Lgs. 152/06	lot determined.	
Netherlands		
Ministry of Social Affairs a	mployment (SZW) Carcinogonic substa	neas and processos, mutagania ar

Ministry of Social Affairs and Employment (SZW) - Carcinogenic substances and processes, mutagenic or reprotoxic substances

Ingredient name	Carcinogen	-	Reproductive toxicity - Fertility		Harmful via breastfeeding
ethanol complexe derivatives of oil and charcoal	Listed Listed	-	Fertility 1A -	Development 1A -	Listed -

(ABM) : Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ toxicity or persistence). Decontamination effort: Z

Norway **Sweden Switzerland VOC content** : Exempt. **International regulations** Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. **Montreal Protocol** Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Rotterdam Convention on Prior Informed Consent (PIC) Not listed. **UNECE Aarhus Protocol on POPs and Heavy Metals** Not listed.

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 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
	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 Tox. 3 Acute Tox. 4	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 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
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

SECTION 16: Other information			
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Date of previous issue	: No previous validation		
Version	: 1 TEKNOLUX AQUA 1728-62 NCS S0502Y	NCS S0502Y	

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.

Date of issue/Date of revision: 24/10/2024DateTEKNOLUX AQUA 1728-62 - NCS S0502Y

2024 Date of previous issue

: No previous validation