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

SAFETY DATA SHEET



TEKNOLUX AQUA 1728-12 - All variants

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

1.1 Product identifier

Product name : TEKNOLUX AQUA 1728-12 - All variants

1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use: Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person : Prod-safe@teknos.com responsible for this SDS

National contact

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

1.4 Emergency telephone number

National advisory body/Poison Centre

 Telephone number
 : Malta Competition and Consumer Affairs Authority (MCCAA): +356 2395 2000

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	₱302 + P352 - IF ON SKIN: Wash with plenty of water. P362 + P364 - Take off contaminated clothing and wash it before reuse.
Storage	Not applicable.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

SECTION 2: Hazards identification

Hazardous ingredients	: Contains: 2-Propenoic acid, reaction products with dipentaerythritol; ethyl phenyl (2,4,6-trimethylbenzoyl)phosphinate; 1,2-benzisothiazol-3(2H)-one and reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
Supplemental label elements	: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

SECTION 3: Composition/information on ingredients

01-2 EC: 2 CAS2-ButoxyethanolREA 01-2: EC: 2 CAS2-Propenoic acid, reaction products with dipentaerythritolREA 01-2: EC: 2 CASethyl phenyl (2,4,6-trimethylbenzoyl) phosphinateREA 01-2: CASethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m-REA 01-2: EC: 2 CAS	CH #: 119489379-17 236-675-5 : 13463-67-7 CH #: 119475108-36 203-905-0 : 111-76-2 x: 603-014-00-0 CH #: 119980666-22 : 1384855-91-7	≥10 - ≤25 ≤5 ≤3	Carc. 2, H351 (inhalation) Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3,	- ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l -	[1] [*] [1] [2] [1]
2-Propenoic acid, reaction products with dipentaerythritol ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate Ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m- 01-2 EC: 2 CAS: REA(01-2 CAS: CAS: CAS: CAS: CAS: CAS: CAS: CAS:	119475108-36 203-905-0 : 111-76-2 x: 603-014-00-0 CH #: 119980666-22 : 1384855-91-7		Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3,	mg/kg ATE [Inhalation	
products with dipentaerythritol01-2° CAS2ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinateREA4 01-2° EC: 2 CAS2ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m-REA4 01-2°	119980666-22 : 1384855-91-7	≤3	Skin Sens. 1A, H317 Aquatic Chronic 3,	-	[1]
(2,4,6-trimethylbenzoyl) phosphinate ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m-01-2]	011//		H412		
[3-(5-tert-butyl-4-hydroxy-m- 01-2	CH #: 119987994-10 282-810-6 : 84434-11-7	≤3	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]
	CH #: 119956160-44 253-039-2 : 36443-68-2	≤0.1	Aquatic Chronic 1, H410	M [Chronic] = 10	[1]
one CAS	220-120-9 : 2634-33-5 x: 613-088-00-6	<0.036	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = 0.21 mg/l Skin Sens. 1, H317: $C \ge 0.036\%$ M [Acute] = 1 M [Chronic] = 1	[1]
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SECTION 3: Composition/information on ingredients					
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:1)	EC: 911-418-6 CAS: 55965-84-9 Index: 613-167-00-5	<0.0015	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071		[1]
2-methyl-2H-isothiazol- 3-one	EC: 220-239-6 CAS: 2682-20-4 Index: 613-326-00-9	<0.0015	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 See Section 16 for the full text of the H statements declared above.	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]

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

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
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.

SECTION 4: First aid measures

Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate 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: Firefighting measures

5.1 Extinguishing media			
Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	:	None known.	
5.2 Special hazards arising f	from	the substance or mixture	
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst. 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 if there is a fire. No action shall be taken involving any personal risk or without suitable training.	
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	

SECTION 6: Accidental release measures

	la	
6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency : personnel		No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	•	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. 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. See Section 10 for incompatible materials before handling or use.

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7.3 Specific end use(s)

Recommendations

: Not available.

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SECTION 7: Handling and storage

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
-Butoxyethanol	EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .

Biological exposure indices

Product/ingredient name	Exposure indices			
No exposure indices known.				

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of 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

titanium dioxide

2-Butoxyethanol

Product/ingredient name

Result

DNEL - General population - Long term - Inhalation 28 μg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation 170 µg/m³ <u>Effects</u>: Local

DNEL - General population - Long term - Oral 6.3 mg/kg bw/day <u>Effects:</u> Systemic

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

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

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

DNEL - General population - Short term - Inhalation 147 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Short term - Inhalation

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SECTION 8: Exposure c	ontrols	personal protection
	,01111 013/	246 mg/m ³
		<u>Effects</u> : Local
		DNEL - General population - Short term - Inhalation 426 mg/m ³ <u>Effects</u> : Systemic
		DNEL - Workers - Short term - Inhalation 1091 mg/m³ <u>Effects</u> : Systemic
ethyl phenyl(2,4,6-trimethylbenzo phosphinate	yyl)	DNEL - General population - Long term - Oral 0.5 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Long term - Dermal 0.5 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Long term - Inhalation 0.87 mg/m ³ <u>Effects</u> : Systemic
		DNEL - Workers - Long term - Dermal 1.4 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - Workers - Long term - Inhalation 4.93 mg/m³ <u>Effects</u> : Systemic
1,2-benzisothiazol-3(2H)-one		DNEL - General population - Long term - Dermal 0.345 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - Workers - Long term - Dermal 0.966 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Long term - Inhalation 1.2 mg/m ³ <u>Effects</u> : Systemic
		DNEL - Workers - Long term - Inhalation 6.81 mg/m ³ <u>Effects</u> : Systemic
reaction mass of: 5-chloro-2-met 4-isothiazolin-3-one [EC no. 247- 2-methyl-2H-isothiazol-3-one [EC 220-239-6] (3:1)	500-7] and	DNEL - General population - Long term - Inhalation 0.02 mg/m ³ <u>Effects</u> : Local
		DNEL - Workers - Long term - Inhalation 0.02 mg/m³ <u>Effects</u> : Local
		DNEL - General population - Short term - Inhalation 0.04 mg/m ³ Effects: Local
		DNEL - Workers - Short term - Inhalation 0.04 mg/m³ <u>Effects</u> : Local
		DNEL - General population - Long term - Oral 0.09 mg/kg bw/day
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Effects: Systemic

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

2-methyl-2H-isothiazol-3-one

DNEL - General population - Long term - Inhalation 0.021 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Long term - Inhalation 0.021 mg/m³ Effects: Local

DNEL - General population - Long term - Oral 0.027 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Short term - Inhalation 0.043 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation 0.043 mg/m³ Effects: Local

DNEL - General population - Short term - Oral 0.053 mg/kg bw/day <u>Effects</u>: Systemic

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PNECs

Not available.

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8.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	ures
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
	> 8 hours (breakthrough time): 4H / Silver Shield® gloves.
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SECTION 8: Exposure controls/personal protection

		Wash hands before breaks and immediately after handling the product.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
		Filter type (spray application): A P
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

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

Ingredient name	°C	°F	Method
water	100	212	
2-Butoxyethanol	171 to 171.5	339.8 to 340.7	IP 123-93

Flammability	: Not available.
Lower and upper explosion limit	: Lower: Not applicable. Upper: Not applicable.
Flash point	: Closed cup: >100°C (>212°F)

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Auto-ignition temperature

Ingredient name	°C	°F	Method
₽ ² Butoxyethanol	230	446	DIN 51794
ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	423	793.4	DIN EN 14522

: Not available.
: ₮∕ to 9 [Conc. (% w/w): 100%]
: Not available.
:
: Not available.
: Not applicable.
:

	Va	apour Press	sure at 20°C	Va	apour pres	sure 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.		ŀ			
Density	: 1.2	g/cm³					
Vapour density	: Not	available.					
Particle characteristics							
Median particle size	: Not	applicable.					
2 Other information							
9.2.1 Information with regard	d to physic	al hazard c	lasses				
Explosive properties	: Not	available.					
Oxidising properties							
9.2.2 Other safety characteri	stics						
Not applicable.							
ECTION 10: Stability	y and re	activity					
0.1 Reactivity	: No spec	cific test data	a related to reacti	ivity available fo	r this produ	ct or its ingredient	
0.2 Chemical stability	: The pro	duct is stab	le.				
0.3 Possibility of azardous reactions	: Under r	ormal cond	itions of storage a	and use, hazard	ous reactio	ns will not occur.	
0.4 Conditions to avoid	: No spe	cific data.					
0.5 Incompatible materials	: No spec	cific data.					
0.6 Hazardous ecomposition products		normal cond not be produ		and use, hazard	ous decom	position products	

Acute toxicity Product/ingredient name

2-benzisothiazol-3(2H)-one

reaction mass of: 5-chloro-2-methyl-

Result

53 mg/kg

Rat - Oral - LD50 1020 mg/kg

Rat - Oral - LD50

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

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration -Respiratory depression

2-methyl-2H-isothiazol-3-one

Rat - Inhalation - LC50 Dusts and mists 0.11 mg/l [4 hours]

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
FEKNOLUX AQUA 1728-12	35844.0	N/A	N/A	89.6	N/A
2-Butoxyethanol	1200	N/A	N/A	3	N/A
1,2-benzisothiazol-3(2H)-one	450	N/A	N/A	N/A	0.21
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)	53	50	N/A	0.5	N/A
2-methyl-2H-isothiazol-3-one	100	300	N/A	N/A	0.11

Skin corrosion/irritation

Product/ingredient name

titanium dioxide

Result

Human - Skin - Mild irritant Duration of treatment/exposure: 72 hours Amount/concentration applied: 300 ug l

2-Butoxyethanol

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

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg

Human - Skin - Mild irritant Duration of treatment/exposure: 48 hours Amount/concentration applied: 5 %

Human - Skin - Severe irritant Amount/concentration applied: 0.01 %

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

2-Butoxyethanol

Result

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Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 100 mg

Rabbit - Eyes - Severe irritant Amount/concentration applied: 100 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

SECTION 11: Toxicological information

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

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

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.	
Information on likely routes of	f exposure
Not available.	
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 phy	sical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Delayed and immediate effect	s as well as chronic 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 effe	<u>ts</u>
Not available.	
Conclusion/Summary [Pro	uct] : Not available.

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SECTION 11: Toxicological information

	-
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

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

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity				
Product/ingredient name		Result		
titanium dioxide		Acute - LC50 -	Marine water	
			nog - Fundulus heteroclitus	
		>1000000 µg/l		
		Effect: Mortality		
		Acute - LC50 -	Fresh water	
		Crustaceans - \	Nater flea - Ceriodaphnia dub	<i>ia</i> - Neonate
		<u>Age</u> : <24 hours		
		3 mg/l [48 hour		
		Effect: Mortality	1	
2-Butoxyethanol		Acute - LC50 -	Marine water	
, ,			verside - <i>Menidia beryllina</i>	
		<u>Size</u> : 40 to 100	-	
		1250000 µg/l [9		
		Effect: Mortality	,	
		Acute - LC50 -	Marine water	
			Common shrimp, sand shrimp	- Crangon
		crangon		J
		800000 μg/l [48	hours]	
		Effect: Mortality	,	
1,2-benzisothiazol-3(2H)-one		Acute - LC50 -	Fresh water	
			cute Toxicity Test]	
			norhynchus Mykiss	
		1.9 mg/l [96 ho		
		Acute - EC50		
		OECD 202 [Da	phnia sp. Acute Immobilizatior	n Test and
		Reproduction T		
			nnia - <i>Daphnia Magna</i>	
		3.7 mg/l [48 ho	urs]	
		Acute - EC50 -	Marine water	
			a, Growth Inhibition Test]	
			Skeletonema Costatum	
		0.36 mg/l [72 h		
		Acute - NOEC	- Marine water	
			a, Growth Inhibition Test]	
			Skeletonema Costatum	
		0.15 mg/l [72 h		
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SECTION 12: Ecological information

2-methyl-2H-isothiazol-3-one Acute - EC50 - Fresh water US EPA Daphnia - Water flea - Daphnia magna <u>Age</u>: <24 hours 0.18 ppm [48 hours] <u>Effect</u>: Intoxication Acute - LC50 - Fresh water US EPA Fish - Rainbow trout,donaldson trout - O

US EPA Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss* <u>Weight</u>: 0.73 g 0.07 ppm [96 hours] <u>Effect</u>: Mortality

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Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Product	/ingred	lient	name
---------	---------	-------	------

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

Result EU 24% [28 days]

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
7,2-benzisothiazol-3(2H)-one	-	-	Inherent

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
Butoxyethanol ethylenebis(oxyethylene) bis[3-(5-tert- butyl-4-hydroxy-m-tolyl)propionate]	1.83 5	67.3685 99619.3
1,2-benzisothiazol-3(2H)-one 2-methyl-2H-isothiazol-3-one	1.86 1.74	73.142 54.9187

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	Μ	т	vPvM	vP	vM
itanium dioxide	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
2-Propenoic acid, reaction products with dipentaerythritol	No	No	No	No	No	No	No
ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate	No	No	No	No	No	No	No
ethylenebis(oxyethylene) bis 3-(5-tert-butyl-4-hydroxy-m- colyl)propionate]	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No

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SECTION 12: Ecolog	ical inf	ormatior	า				
2-methyl-2H-isothiazol-3-one	No	No	No	No	No	No	No
Mobility	: Not av	ailable.					
Conclusion/Summary	:	The produc	t does not m	neet the crite	ria to be con	sidered as a l	PMT or vPvM.

12.5 Results of PBT and vPvB assessment Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
titanium dioxide	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
2-Propenoic acid, reaction	No	No	No	No	No	No	No
products with							
dipentaerythritol							
ethyl phenyl	No	No	No	No	No	No	No
(2,4,6-trimethylbenzoyl)							
phosphinate							
ethylenebis(oxyethylene) bis	No	No	No	No	No	No	No
[3-(5-tert-butyl-4-hydroxy-m-							
tolyl)propionate]	NI.	N L	NL	NL		NL	N.
1,2-benzisothiazol-3(2H)-one		No	No	No	No	No	No
reaction mass of: 5-chloro-	No	No	No	No	No	No	No
2-methyl-4-isothiazolin-							
3-one [EC no. 247-500-7]							
and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:							
1)							
2-methyl-2H-isothiazol-3-one	No	No	No	No	No	No	No
Regulation (EC) No. 1272/20		NO	NO	NO		NO	NO
• · · ·	PBT	Р	В	т	vPvB		
Product/ingredient name	РВТ	P	В	1	VPVB	vP	vB
titanium dioxide	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
		No	No	No	No	No	No
2-Propenoic acid, reaction	No						
products with	NO	110					
products with dipentaerythritol							
products with dipentaerythritol ethyl phenyl	No	No	No	No	No	No	No
products with dipentaerythritol ethyl phenyl (2,4,6-trimethylbenzoyl)			No	No	No	No	No
products with dipentaerythritol ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate	No	No					
products with dipentaerythritol ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate ethylenebis(oxyethylene) bis			No No	No No	No	No No	No
products with dipentaerythritol ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m-	No	No					
products with dipentaerythritol ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m- tolyl)propionate]	No	No No	No	No	No	No	No
products with dipentaerythritol ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m- tolyl)propionate] 1,2-benzisothiazol-3(2H)-one	No No	No No No	No No	No	No	No No	No
products with dipentaerythritol ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m- tolyl)propionate] 1,2-benzisothiazol-3(2H)-one reaction mass of: 5-chloro-	No	No No	No	No	No	No	No
products with dipentaerythritol ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m- tolyl)propionate] 1,2-benzisothiazol-3(2H)-one reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-	No No	No No No	No No	No	No	No No	No
products with dipentaerythritol ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m- tolyl)propionate] 1,2-benzisothiazol-3(2H)-one reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7]	No No	No No No	No No	No	No	No No	No
products with dipentaerythritol ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m- tolyl)propionate] 1,2-benzisothiazol-3(2H)-one reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-	No No	No No No	No No	No	No	No No	No
products with dipentaerythritol ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m- tolyl)propionate] 1,2-benzisothiazol-3(2H)-one reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:	No No	No No No	No No	No	No	No No	No
products with dipentaerythritol ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m- tolyl)propionate] 1,2-benzisothiazol-3(2H)-one reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-	No No No	No No No	No No	No	No	No No	No

: The product does not meet the criteria to be considered as a PBT or vPvB.

P]

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product]

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

12.7 Other adverse effects

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

SECTION 12: Ecological information

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.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

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

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

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SECTION 15: Regulatory information

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 1728-12		≥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 applicab	ole.		
Ozone depleting substances Not listed.	<u>; (EU 2024/59(</u>	<u>0)</u>		
Prior Informed Consent (PIC Not listed.	<u>) (649/2012/E</u>	<u>U)</u>		
Persistent Organic Pollutant Not listed.	<u>s</u>			
Seveso Directive				
This product is not controlled u	under the Seve	eso Directive	Э.	
Chemical Weapon Convention Not listed. Montreal Protocol	<u>n List Schedu</u>	<u>ıles I, II & II</u>	<u>I Chemicals</u>	
Not listed.				
Stockholm Convention on Pe Not listed.	<u>rsistent Orga</u>	<u>nic Polluta</u>	<u>nts</u>	
Rotterdam Convention on Pri	or Informed C	Consent (Pl	(<u>C)</u>	
Not listed.				
UNECE Aarhus Protocol on P	OPs and Hea	vv Metals		
Not listed.				
15.2 Chemical safety sassessment	This product required.	t contains s	ubstances for which Chemical S	afety Assessments are still
SECTION 16: Other in	ormation			
Indicates information that has	s changed fron	n previously	issued version.	
Abbreviations and acronyms	1272/2008] DMEL = Der DNEL = Der	rived Minima rived No Effe ent = CLP-s	abelling and Packaging Regulati al Effect Level	on [Regulation (EC) No.
		stent, Bioac	cumulative and Toxic	
Date of issue/Date of revision	PBT = Persi	stent, Bioac	ffect Concentration	Version : 2 17/19

SECTION 16: Other information

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

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.
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.

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
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
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Notice to reader

Version

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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