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

SAFETY DATA SHEET



AQUATOP VIRTA 22 - RAL 6009

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

1.1 Product identifier Product name

: AQUATOP VIRTA 22 - RAL 6009

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

Telephone number: In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u> Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements Signal word : No signal word. **Hazard statements** : No known significant effects or critical hazards. **Precautionary statements Prevention** : Not applicable. Response : Not applicable. **Storage** : Not applicable. **Disposal** : Not applicable. **Supplemental label** : Contains adipohydrazide, 1,2-benzisothiazol-3(2H)-one and 2-Octyl-2H-isothiazol-3-one. May produce an allergic reaction. elements Safety data sheet available on request. Contains biocidal products for in-can preservation: BIT and DTBMA and MBIT. **Annex XVII - Restrictions** ŝ on the manufacture, placing on the market and

placing on the market and use of certain dangerous substances, mixtures and articles

2.3 Other hazards

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SECTION 2: Hazards identification

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

: Mixture				
Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	≤3	Eye Irrit. 2, H319	-	[1] [2]
REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8	<1	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.036	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = 0.21 mg/l Skin Sens. 1, H317: C $\geq 0.036\%$ M [Acute] = 1 M [Chronic] = 1	[1]
EC: 247-761-7 CAS: 26530-20-1 Index: 613-112-00-5	<0.001	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, 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	ATE [Oral] = 125 mg/kg ATE [Dermal] = 311 mg/kg ATE [Inhalation (dusts and mists)] = 0.27 mg/l Skin Sens. 1, H317: C $\geq 0.0015\%$ M [Acute] = 100 M [Chronic] = 100	[1]
	Identifiers REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8 REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8 EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6 EC: 247-761-7 CAS: 26530-20-1	Identifiers%REACH #: 01-2119475104-44 ≤ 3 CC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8 < 1 REACH #: 01-2119962900-36 < 1 EC: 213-999-5 CAS: 1071-93-8 < 0.036 EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6 < 0.036 EC: 247-761-7 CAS: 26530-20-1 < 0.001	Identifiers % Classification REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8 <3	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

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.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid n	neasures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed
Over-exposure signs/symptoms

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
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	1	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising fi	ron	the substance or mixture
Hazards from the substance or mixture	1	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident 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.

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SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective 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. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	containment 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. 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. 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).
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient na	ame Exposure limit values
2-(2-butoxyethoxy)ethanol	Regulation on Limit Values - MAC (Austria, 4/2021) TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m ³ . PEAK 15 minutes: 15 ppm 4 times per shift. PEAK 15 minutes: 101.2 mg/m ³ 4 times per shift.
2-Octyl-2H-isothiazol-3-one	Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin, Sensitiser. TWA 8 hours: 0.05 mg/m ³ . Form: Inhalable fraction. CEIL: 0.05 mg/m ³ . Form: Inhalable fraction.
-(2-butoxyethoxy)ethanol	Limit values (Belgium, 12/2023) STEL 15 minutes: 15 ppm. TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m ³ . STEL 15 minutes: 101.2 mg/m ³ .
-(2-butoxyethoxy)ethanol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Limit value 8 hours: 67.5 mg/m ³ . Limit value 15 minutes: 101.2 mg/m ³ . Limit value 15 minutes: 15 ppm. Limit value 8 hours: 10 ppm.
2-(2-butoxyethoxy)ethanol	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I (Croatia, 12/2023) STELV 15 minutes: 101.2 mg/m ³ . STELV 15 minutes: 15 ppm. ELV 8 hours: 67.5 mg/m ³ . ELV 8 hours: 10 ppm.
-(2-butoxyethoxy)ethanol	Department of labour inspection (Cyprus, 7/2021) STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m ³ . TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m ³ .
-(2-butoxyethoxy)ethanol	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m ³ . STEL 15 minutes: 15 ppm.
2-(2-butoxyethoxy)ethanol	Working Environment Authority (Denmark, 3/2024) TWA 8 hours: 68 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101 mg/m ³ .
2-(2-butoxyethoxy)ethanol	Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m ³ .
-(2-butoxyethoxy)ethanol	EU OEL (Europe, 1/2022) TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m ³ . STEL 15 minutes: 15 ppm.

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✓-(2-butoxyethoxy)ethanol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) TWA 8 hours: 10 ppm. TWA 8 hours: 68 mg/m ³ .
₽-(2-butoxyethoxy)ethanol	Ministry of Labor (France, 6/2024) STEL 15 minutes: 101.2 mg/m ³ . Notes: Indicative regulatory limit values (decree of 30-06-2004 modified) STEL 15 minutes: 15 ppm. Notes: Indicative regulatory limit values (decree of 30-06-2004 modified) TWA 8 hours: 67.5 mg/m ³ . Notes: Indicative regulatory limit values (decree of 30-06-2004 modified) TWA 8 hours: 10 ppm. Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)
2-(2-butoxyethoxy)ethanol	 TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 67 mg/m³. PEAK 15 minutes: 100.5 mg/m³. TWA 8 hours: 10 ppm. PEAK 15 minutes: 15 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. TWA 8 hours: 67 mg/m³. PEAK 15 minutes: 100.5 mg/m³ 4 times per shift [Interval: 1 hour TWA 8 hours: 10 ppm. PEAK 15 minutes: 15 ppm 4 times per shift [Interval: 1 hour].
1,2-benzisothiazol-3(2H)-one 2-Octyl-2H-isothiazol-3-one	 DFG MAC-values list (Germany, 7/2023) Skin sensitiser. TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 0.05 mg/m³. Form: Inhalable fraction. PEAK 15 minutes: 0.1 mg/m³. Form: Inhalable fraction. DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin , Skin sensitiser. TWA 8 hours: 0.05 mg/m³. Form: inhalable fraction. PEAK 15 minutes: 0.1 mg/m³ 4 times per shift [Interval: 1 hour]. Form: inhalable fraction.
2-(2-butoxyethoxy)ethanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) STEL 15 minutes: 101.2 mg/m ³ . STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm.
2-(2-butoxyethoxy)ethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) TWA 8 hours: 67.5 mg/m ³ . PEAK 15 minutes: 101.2 mg/m ³ . PEAK 15 minutes: 15 ppm. TWA 8 hours: 10 ppm.
2-(2-butoxyethoxy)ethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023 STEL 15 minutes: 101.2 mg/m ³ . STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm.
2-(2-butoxyethoxy)ethanol	 NAOSH (Ireland, 4/2024) Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 10 ppm. OELV 15 minutes: 101.2 mg/m³. OELV 8 hours: 67.5 mg/m³. OELV 15 minutes: 15 ppm.
2-(2-butoxyethoxy)ethanol	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) Limit value 8 hours: 10 ppm. Limit value 8 hours: 67.5 mg/m ³ . Short Term 15 minutes: 15 ppm. Short Term 15 minutes: 101.2 mg/m ³ .

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2-(2-butoxyethoxy)ethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) STEL 15 minutes: 101.2 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m ³ .
₽-(2-butoxyethoxy)ethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m ³ . STEL 15 minutes: 15 ppm.
2-(2-butoxyethoxy)ethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m ³ . TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m ³ .
₽-(2-butoxyethoxy)ethanol	EU OEL (Europe, 1/2022) TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m ³ . STEL 15 minutes: 15 ppm.
2-(2-butoxyethoxy)ethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 50 mg/m ³ . STEL 15 minutes: 100 mg/m ³ . TWA 8 hours: 7.4 ppm. STEL 15 minutes: 14.8 ppm.
2-(2-butoxyethoxy)ethanol	FOR-2011-12-06-1358 (Norway, 12/2022) TWA 8 hours: 10 ppm. TWA 8 hours: 68 mg/m ³ .
2 -(2-butoxyethoxy)ethanol	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) TWA 8 hours: 67 mg/m ³ . STEL 15 minutes: 100 mg/m ³ .
2-(2-butoxyethoxy)ethanol	Portuguese Institute of Quality (Portugal, 11/2014) TWA 8 hours: 10 ppm. Form: Inhalable fraction and vapor.
2 -(2-butoxyethoxy)ethanol	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) VLA 8 hours: 67.5 mg/m ³ . Short term 15 minutes: 101.2 mg/m ³ . Short term 15 minutes: 15 ppm. VLA 8 hours: 10 ppm.
2-(2-butoxyethoxy)ethanol	Government regulation SR c. 355/2006 (Slovakia, 7/2024) Inhalation sensitiser. TWA 8 hours: 67.5 mg/m ³ . STEL 15 minutes: 101.2 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm.
 	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm. KTV 15 minutes: 101.2 mg/m ³ 4 times per shift [time between tw exposure events at this concentration must be at least 60 minutes KTV 15 minutes: 15 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes
2-Octyl-2H-isothiazol-3-one	Regulation on protection of workers from the risks related to

SECTION 8: Exposure con	trols/personal protection
	exposure to chemical substances at work (Slovenia, 4/2024) Absorbed through skin. TWA 8 hours: 0.05 mg/m ³ . Form: Inhalable fraction. KTV 15 minutes: 0.1 mg/m ³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. Form: Inhalable fraction.
2-(2-butoxyethoxy)ethanol	National institute of occupational safety and health (Spain, 1/2024) TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m ³ .
2-(2-butoxyethoxy)ethanol	Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 10 ppm. TWA 8 hours: 68 mg/m ³ . STEL 15 minutes: 15 ppm. STEL 15 minutes: 101 mg/m ³ .
2-(2-butoxyethoxy)ethanol	SUVA (Switzerland, 1/2024) TWA 8 hours: 67 mg/m ³ . Form: vapour and aerosols. STEL 15 minutes: 101 mg/m ³ . Form: vapour and aerosols. STEL 15 minutes: 15 ppm. Form: vapour and aerosols. TWA 8 hours: 10 ppm. Form: vapour and aerosols.
2-Octyl-2H-isothiazol-3-one	SUVA (Switzerland, 1/2024) Absorbed through skin , Sensitiser. TWA 8 hours: 0.05 mg/m ³ . Form: Inhalable fraction. STEL 15 minutes: 0.1 mg/m ³ . Form: Inhalable fraction.
2-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m ³ . STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m ³ .

Biological exposure indices

Product/ingredient na	ame	Exposure indices		
No exposure indices known.				
No exposure indices known.				
No exposure indices known.				
No exposure indices known.				
No exposure indices known.				
No exposure indices known.				
No exposure indices known.				
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SECTION 8: Exposure	controls/per	sonal protection
No exposure indices known.		
Recommended monitoring : procedures	European Standa assessment of ex values and meas atmospheres - G of exposure to ch (Workplace atmos for the measurem	d be made to monitoring standards, such as the following: ard EN 689 (Workplace atmospheres - Guidance for the xposure by inhalation to chemical agents for comparison with limit surement strategy) European Standard EN 14042 (Workplace uide for the application and use of procedures for the assessment hemical and biological agents) European Standard EN 482 ospheres - General requirements for the performance of procedures nent of chemical agents) Reference to national guidance ethods for the determination of hazardous substances will also be
DNELs/DMELs		
Product/ingredient name		Result
₽-(2-butoxyethoxy)ethanol		DNEL - General population - Long term - Oral 6.25 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - Workers - Long term - Inhalation 67.5 mg/m³ <u>Effects</u> : Local
		DNEL - Workers - Short term - Inhalation 101.2 mg/m³ <u>Effects</u> : Local
adipohydrazide		DNEL - Workers - Long term - Inhalation 17.5 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/m³ <u>Effects</u> : Systemic

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SECTION 8: Exposure controls/personal protection

PNECs

Not available.

8.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measured	<u>res</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. 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.
	Recommendations : Wear suitable gloves tested to EN374.
	> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	Not recommended polyvinyl alcohol (PVA) gloves
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	Filter type (spray application): A P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

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

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Ingredient name		°C	°F	Method	
water		100	212		
2-(2-butoxyethoxy)ethanol		225 to 227.6	437 to 441.7		
Flammability	: Not av	ailable.	1	i i	
Lower and upper explosion imit		Not applicable. Not applicable.			
Flash point	: Closed	cup: >100°C (>	212°F)		
Auto-ignition temperature	:				
Ingredient name		°C	°F	Method	
2-(2-butoxyethoxy)ethanol		210	410	DIN 51794	
Decomposition temperature	: Not av	ailable.	ł		
ъН	: <mark>8</mark> to 8.5	5 [Conc. (% w/w): 100%]		
/iscosity	: Not av	ailable.			
Solubility(ies)	:				
Not available.					
Solubility in water	: Not available.				
Partition coefficient: n-octanol/ water	: Not ap	plicable.			

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
2-(2-butoxyethoxy)ethanol	0.022	0.0029				
Relative density	: No	t available.				
Density	: 1.1	g/cm³				
/apour density	: No	t available.				
Particle characteristics						
Median particle size	: No	t applicable.				
2 Other information						
0.2.1 Information with reg	ard to physi	cal hazard c	lasses			
Explosive properties	: No	t available.				
Oxidising properties	: Not available.					

9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stability and reactivity

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

SECTION 10: Stability and reactivity

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 de	efined in Regulation (EC) No 1272/2008
Acute toxicity	
Product/ingredient name	Result
2-(2-butoxyethoxy)ethanol	Rabbit - Dermal - LD50
	2700 mg/kg
	Rat - Oral - LD50
	4500 mg/kg
	Toxic effects: Behavioral - Tetany Lung, Thorax, or Respiration
	- Dyspnea Liver - Other changes
1,2-benzisothiazol-3(2H)-one	Rat - Oral - LD50
	1020 mg/kg
2-Octyl-2H-isothiazol-3-one	Rat - Oral - LD50
	550 mg/kg
	Rabbit - Dermal - LD50
	690 mg/kg
Conclusion/Summary [Product] : N	ot available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
AQUATOP VIRTA 22	N/A	N/A	N/A	739.2	N/A
2-(2-butoxyethoxy)ethanol	4500	2700	N/A	N/A	N/A
1,2-benzisothiazol-3(2H)-one	450	N/A	N/A	N/A	0.21
2-Octyl-2H-isothiazol-3-one	125	311	N/A	N/A	0.27

Skin corrosion/irritation

Product/ingredient name

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

Result

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

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

2-(2-butoxyethoxy)ethanol

Result

Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 20 mg

Rabbit - Eyes - Severe irritant Amount/concentration applied: 20 mg

2-Octyl-2H-isothiazol-3-one

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

Conclusion/Summary [Product] : Not available.

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SECTION 11: Toxicological information
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.
Germ cell mutagenicity Not available.
Conclusion/Summary [Product] : Not available.
Carcinogenicity Not available.
Conclusion/Summary [Product] : Not available.
Reproductive toxicity Not available.
Conclusion/Summary [Product] : Not available.
<u>Specific target organ toxicity (single exposure)</u> Not available.
<u>Specific target organ toxicity (repeated exposure)</u> Not available.
Aspiration hazard Not available.
Information on likely routes of 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: No known significant effects or critical hazards.
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 : No specific data.
Ingestion : No specific data.
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Short term exposure

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SECTION 11: Toxicological information

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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>cts</u>
Not available.	
Conclusion/Summary [Pro	duct] : Not available.
General	: No known significant effects or critical hazards.
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 haz	ards
11.2.1 Endocrine disrupting Not available.	properties
	_
Conclusion/Summary [Pro	 duct] : 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: Ecologi	cal information

Product/ingredient name 2-(2-butoxyethoxy)ethanol		Result Acute - LC50 Fish - Bluegill - <u>Size</u> : 33 to 75 μ 1300000 μg/l [<u>Effect</u> : Mortality	<i>Lepomis macrochirus</i> mm 96 hours]	
1,2-benzisothiazol-3(2H)-one		-	cute Toxicity Test] Dnorhynchus Mykiss	
		Reproduction 1	nnia - Daphnia Magna	lization Test and
			ja, Growth Inhibition Tes <i>Skeletonema Costatum</i>	
		OECD 201 [Alg	- Marine water ga, Growth Inhibition Tes <i>Skeletonema Costatum</i> ours]	
2-Octyl-2H-isothiazol-3-one		Acute - EC50 US EPA Daphnia - Wate <u>Age</u> : <24 hours 107 ppb [48 ho	er flea - <i>Daphnia magna</i> S	
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12.1 Toxicity

SECTION 12: Ecological information

Effect: Intoxication

Acute - LC50 - Fresh water

US EPA Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss* <u>Weight</u>: 0.7 g 47 ppb [96 hours] <u>Effect</u>: Mortality

Chronic - NOEC - Fresh water

US EPA Daphnia - Water flea - *Daphnia magna* 74 ppb [21 days] <u>Effect</u>: No Effect Coded

Chronic - NOEC

US EPA Fish - Fathead minnow - *Pimephales promelas* 8.5 ppb [35 days] <u>Effect</u>: Growth

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Product/ingredient name

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-(2-butoxyethoxy)ethanol	1	-	Low
1,2-benzisothiazol-3(2H)-one	-	3.2	Low
2-Octyl-2H-isothiazol-3-one	2.45	-	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
2-(2-butoxyethoxy)ethanol	1.56	36.5981
adipohydrazide	1.74	55.2165
1,2-benzisothiazol-3(2H)-one	1.86	73.142
2-Octyl-2H-isothiazol-3-one	2.85	706.605

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	М	Т	vPvM	vP	vM
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
adipohydrazide	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
2-Octyl-2H-isothiazol-3-one	No	No	No	No	No	No	No

Mobility

: Not available.

: The product does not meet the criteria to be considered as a PMT or vPvM.

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

Conclusion/Summary

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
adipohydrazide	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
2-Octyl-2H-isothiazol-3-one	No	No	No	No	No	No	No
Regulation (EC) No. 1272/20	08 [CLP]						
Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
adipohydrazide	No	No	No	No	No	No	No
	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one		No	No	No	No	No	No

[CLP]

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

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
European waste catalogue (EWC)	: 080112
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. 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)	-	-	-	-
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SECTION 14: Transport information					
14.4 Packing group	-	-	-	-	
14.5 Environmental hazards	No.	No.	No.	No.	

14.6 Special precautions for	1	Transport within user's premises: always transport in closed containers that are
user		upright and secure. Ensure that persons transporting the product know what to do in
		the event of an accident or spillage.

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14.7 Maritime transport in : Not relevant/applicable due to nature of the product. bulk according to IMO instruments
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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]		
2-(2-butoxyethoxy)ethanol	≤3	55 [Consumer paint]		
Labelling :	+			
Other EU regulations				
Industrial emissions : Not listed (integrated pollution prevention and control) - Air				
Industrial emissions : Not listed (integrated pollution prevention and control) - Water				
Explosive precursors : Not applicable	le.			
Ozone depleting substances (EU 2024/590	<u>D)</u>			
Not listed.				
Prior Informed Consent (PIC) (649/2012/E	<u>U)</u>			
Persistent Organic Pollutants Not listed.				
Seveso Directive				
This product is not controlled under the Seve	so Directive.			
National regulations				
Austria				
Limitation of the use of : Permitted. organic solvents				
<u>Belgium</u>				
Czech Republic				
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SECTION 15: Regulat	tory information
Storage code	: IV
<u>Denmark</u>	
Fire class	: 📈-1
MAL-code	: 🕂-1
Protection based on MAL	: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:
	General: Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.
	In all spraying operations in which there is return spray, respiratory protection with air supply and arm protectors/apron/coveralls/protective clothing must be worn as appropriate or as instructed.
	MAL-code: 1-1 Application: 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 must be worn.
	When spraying in existing* spray booths, if the operator is outside the spray zone.
	- Air-supplied half-mask and arm protectors must be worn.
	During non-atomising spraying in existing* facilities of the combined-cabin, spray- cabin and spray-booth type where the operator is working inside the spray zone.
	- Air-supplied half mask 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 half mask, eye protection, coveralls and hood must be worn.
	Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.
	Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.
	Caution The regulations contain other stipulations in addition to the above.
	*See Regulations.
Low-boiling liquids	: This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.
List of undesirable	: Not listed

substances **Finland**

France

Social Security Code, Articles L 461-1 to L 461-7

: 2-(2-butoxyethoxy)ethanol

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SECTION 15: Regulatory information : Act of July 11, 1977 determining the list of activities which require reinforced **Reinforced medical** surveillance medical surveillance: not applicable Germany Storage class (TRGS 510) : 10 Hazardous incident ordinance This product is not controlled under the Germany Hazardous Incident Ordinance. Hazard class for water • 1 Technical instruction on air quality control (TA Luft) % Number [Class] Description 5.2.1 5.3 Total dust 5.2.2 [11] Dusty inorganic substances 0.63 5.2.4 [111] Gaseous inorganic substances 0.066 5.2.5 Organic substances 31.9 5.2.5 [I] Organic substances 2.2 AOX : The product contains organically bound halogens and can contribute to the AOX value in waste water. Italy D.Lgs. 152/06 : Not determined. **Netherlands** Water Discharge Policy : A(4) Low hazard for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A (ABM) 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. **15.2 Chemical safety** : This product contains substances for which Chemical Safety Assessments are still

assessment

required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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

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SECTION 16: Other information

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

Not classified.

Full text of abbreviated H statements

H301	Toxic if swallowed.
H302	Harmful if swallowed.
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.
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.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
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Notice to reader

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

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