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

SAFETY DATA SHEET



AQUATOP VIRTA 38 - NCS S0500-N

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

1.1 Product identifier Product name

: AQUATOP VIRTA 38 - NCS S0500-N

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 <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 elements	: Contains adipohydrazide, 1,2-benzisothiazol-3(2H)-one and 2-Methyl- 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction. Safety data sheet available on request. 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

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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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
2-(2-butoxyethoxy)ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	≤3	Eye Irrit. 2, H319	-	[1] [2]
adipohydrazide	REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8	<1	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
1,2-benzisothiazol-3(2H)- one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.05	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	ATE [Oral] = 1020 mg/kg Skin Sens. 1, H317: C ≥ 0.05% M [Acute] = 1	[1]
2-Methyl-1,2-benzisothiazol- 3(2H)-one	CAS: 2527-66-4 Index: 613-336-00-3	<0.0015	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 EUH071 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 175 mg/kg ATE [Dermal] = 1100 mg/kg Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 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. 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 <u>Over-exposure signs/symptoms</u>

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	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising f	ron	n the substance or mixture
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident 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

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. 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	со	ntainment 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. 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.
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.

7.3 Specific end use(s) Recommendations Industrial sector specific solutions

- : Not available.
- : Not available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
2-(2-butoxyethoxy)ethanol	Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 10 ppm 8 hours. TWA: 67.5 mg/m ³ 8 hours. PEAK: 15 ppm, 4 times per shift, 15 minutes. PEAK: 101.2 mg/m ³ , 4 times per shift, 15 minutes.
2-(2-butoxyethoxy)ethanol	Limit values (Belgium, 5/2021). STEL: 15 ppm 15 minutes. TWA: 10 ppm 8 hours. TWA: 67.5 mg/m ³ 8 hours. STEL: 101.2 mg/m ³ 15 minutes.
2-(2-butoxyethoxy)ethanol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 67.5 mg/m ³ 8 hours. Limit value 15 min: 101.2 mg/m ³ 15 minutes. Limit value 15 min: 15 ppm 15 minutes. Limit value 8 hours: 10 ppm 8 hours.
2-(2-butoxyethoxy)ethanol	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). STELV: 101.2 mg/m ³ 15 minutes. STELV: 15 ppm 15 minutes. ELV: 67.5 mg/m ³ 8 hours. ELV: 10 ppm 8 hours.
2-(2-butoxyethoxy)ethanol	Department of labour inspection (Cyprus, 7/2021). STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m ³ 15 minutes. TWA: 10 ppm 8 hours. TWA: 67.5 mg/m ³ 8 hours.
2-(2-butoxyethoxy)ethanol	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). TWA: 70 mg/m ³ 8 hours. TWA: 10.36 ppm 8 hours. STEL: 100 mg/m ³ 15 minutes. STEL: 14.8 ppm 15 minutes.
2-(2-butoxyethoxy)ethanol	Working Environment Authority (Denmark, 6/2022). TWA: 68 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. STEL: 101 mg/m ³ 15 minutes.
2-(2-butoxyethoxy)ethanol	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 10 ppm 8 hours. TWA: 67.5 mg/m ³ 8 hours.
2-(2-butoxyethoxy)ethanol	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 67.5 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. STEL: 101.2 mg/m ³ 15 minutes. STEL: 15 ppm 15 minutes.
2-(2-butoxyethoxy)ethanol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 10 ppm 8 hours. TWA: 68 mg/m ³ 8 hours.

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	controls/personal protection
2-(2-butoxyethoxy)ethanol	Ministry of Labor (France, 10/2022). Notes: Indicative regulatory limit values (decree of 30-06-2004 modified) STEL: 101.2 mg/m ³ 15 minutes. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
2-(2-butoxyethoxy)ethanol	 TRGS 900 OEL (Germany, 6/2022). TWA: 67 mg/m³ 8 hours. PEAK: 100.5 mg/m³ 15 minutes. TWA: 10 ppm 8 hours. PEAK: 15 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 67 mg/m³ 8 hours. PEAK: 100.5 mg/m³, 4 times per shift, 15 minutes. TWA: 10 ppm 8 hours. PEAK: 15 ppm, 4 times per shift, 15 minutes.
1,2-benzisothiazol-3(2H)-one	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
2-(2-butoxyethoxy)ethanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). STEL: 101.2 mg/m ³ 15 minutes. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
2-(2-butoxyethoxy)ethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). TWA: 67.5 mg/m ³ 8 hours. PEAK: 101.2 mg/m ³ 15 minutes. PEAK: 15 ppm 15 minutes. TWA: 10 ppm 8 hours.
2-(2-butoxyethoxy)ethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). STEL: 101.2 mg/m ³ 15 minutes. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
2-(2-butoxyethoxy)ethanol	 NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 10 ppm 8 hours. OELV-15min: 101.2 mg/m³ 15 minutes. OELV-8hr: 67.5 mg/m³ 8 hours. OELV-15min: 15 ppm 15 minutes.
2-(2-butoxyethoxy)ethanol	Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). 8 hours: 10 ppm 8 hours. 8 hours: 67.5 mg/m ³ 8 hours. Short Term: 15 ppm 15 minutes. Short Term: 101.2 mg/m ³ 15 minutes.
2-(2-butoxyethoxy)ethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). STEL: 101.2 mg/m ³ 15 minutes. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m ³ 8 hours.
2-(2-butoxyethoxy)ethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 67.5 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. STEL: 101.2 mg/m ³ 15 minutes. STEL: 15 ppm 15 minutes.
2-(2-butoxyethoxy)ethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m ³ 15 minutes. TWA: 10 ppm 8 hours. TWA: 67.5 mg/m ³ 8 hours.
Date of issue/Date of revision	: 04/03/2024 Date of previous issue : No previous validation Version : 1 6/19

Imit value TWA: 10 ppm 8 hours. TWA: 68 mg/m ³ 8 hours. Regulation of the Minister of Family, Labor and Social Polic of 18 Fobruary 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). TWA: 67 mg/m ³ 8 hours. STEL: 100 mg/m ³ 15 minutes. 2-(2-butoxyethoxy)ethanol Portuguese Institute of Quality (Portugal, 11/2014). 2-(2-butoxyethoxy)ethanol VLA: 67.5 mg/m ³ 8 hours. 2-(2-butoxyethoxy)ethanol Government regulation SR c. 355/2006 (Slovakia, 9/2020). TWA: 67.5 mg/m ³ 8 hours. STEL: 101.2 mg/m ³ 15 minutes. 2-(2-butoxyethoxy)ethanol Regulation on protection of workers from the risks related t 2-(2-butoxyethoxy)ethanol Regulation on protection of workers from the risks related t 2-(2-butoxyethoxy)ethanol Regulation 10 stitute of occupational safety and health (Spain, 4/2022). TWA: 67.5 mg/m ³ 8 hours. STEL: 10 pm 8 hours. 2-(2-butoxyet	2-(2-butoxyethoxy)ethanol	EU OEL (Europe, 1/2022). Notes: list of indicative
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(Netherlands, 122022). Absorbed through skin. OEL, 8-h TWA: 50 mg/m ³ 8 hours. STEL, 15-min: 100 mg/m ³ 15 minutes. OEL, 8-h TWA: 74 ppm 8 hours. STEL, 15-min: 14.8 ppm 15 minutes. C42-butoxyethoxy)ethanol POR.2011-12-06-1356 (Norway, 12/2022). Notes: indicative limit value TWA: 10 ppm 8 hours. STEL, 15-min: 14.8 ppm 15 minutes. 2-(2-butoxyethoxy)ethanol POR.2011-12-06-1356 (Norway, 12/2022). Notes: indicative limit value TWA: 10 ppm 8 hours. STEL: 10 ppm 8 hours. STEL: 100 mg/m ³ 15 minutes. 2-(2-butoxyethoxy)ethanol Portuguese Institute of Quality (Portugal, 11/2014). TWA: 67 mg/m ³ 8 hours. STEL: 100 mg/m ⁴ 15 minutes. 2-(2-butoxyethoxy)ethanol C42-butoxyethoxy)ethanol		
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2-(2-butoxyethoxy)ethanol 2-(2-butoxyethoxy)ethanol 2-(2-butoxyethoxy)ethanol 3000 STEL: 101 mg/m ³ 15 minutes. 5000 STEL: 101 mg/m ³ 15 minutes. Form: vapour and aerosols 5000 STEL: 101 mg/m ³ 15 minutes. Form: vapour and aerosols 5000 STEL: 15 ppm 15 minutes. Form: vapour and aerosols 5000 STEL: 10 ppm 8 hours. Form: vapour and aerosols 5000 STEL: 10 ppm 8 hours. Form: vapour and aerosols 5000 STEL: 10 ppm 8 hours. Form: vapour and aerosols 5000 STEL: 10 ppm 8 hours. Form: vapour and aerosols 5000 STEL: 10 ppm 8 hours. Form: vapour and aerosols 5000 STEL: 10 ppm 8 hours. Form: vapour and aerosols 5000 STEL: 10 ppm 8 hours. Form: vapour and aerosols 5000 STEL: 10 ppm 8 hours. Form: vapour and aerosols		TWA: 10 ppm 8 hours.
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STEL: 101 mg/m ³ 15 minutes. Form: vapour and aerosols STEL: 15 ppm 15 minutes. Form: vapour and aerosols TWA: 10 ppm 8 hours. Form: vapour and aerosols		
TWA: 10 ppm 8 hours. Form: vapour and aerosols		STEL: 101 mg/m ³ 15 minutes. Form: vapour and aerosols
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2-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 10 ppm 8 hours.
	STEL: 15 ppm 15 minutes.
	TWA: 67.5 mg/m ³ 8 hours. STEL: 101.2 mg/m ³ 15 minutes.
Biological exposure indices	
Product/ingredient name	Exposure indices
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
, No exposure indices known.	
No exposure indices known.	
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procedures Europe assess values atmosp of expo (Workp for the	nce should be made to monitoring standards, such as the following: an Standard EN 689 (Workplace atmospheres - Guidance for the ment of exposure by inhalation to chemical agents for comparison with limit and measurement strategy) European Standard EN 14042 (Workplace oheres - Guide for the application and use of procedures for the assessment osure to chemical and biological agents) European Standard EN 482 place atmospheres - General requirements for the performance of procedures measurement of chemical agents) Reference to national guidance ents for methods for the determination of hazardous substances will also be
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SECTION 8: Exposure controls/personal protection

required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
2-(2-butoxyethoxy)ethanol	DNEL	Long term Oral	6.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	67.5 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	101.2 mg/ m³	Workers	Local
adipohydrazide	DNEL	Long term Inhalation	17.5 mg/m³	Workers	Systemic
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.966 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.2 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	6.81 mg/m³		Systemic

PNECs

No PNECs available

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborn contaminants.
ndividual protection measu	Ires
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 clothin 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 shoul be worn at all times when handling chemical products if a risk assessment indicate 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 importan 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.

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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	: Greyish-white.
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-(2-butoxyethoxy)ethanol	225 to 227.6	437 to 441.7	

F	a	m	m	at	oil	ity
---	---	---	---	----	-----	-----

: Not available.

Lower and upper explosion	: Lower: Not applicable.
limit	Upper: 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 available.
рН	:	8 to 8.5
Viscosity	:	Not available.
Solubility(ies)	:	
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/	:	Not applicable.

2

Vapour pressure

water

	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	: Not available.
Density	: 1.2 g/cm ³
Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

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

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-butoxyethoxy)ethanol	LD50 Dermal LD50 Oral	Rabbit Rat	2700 mg/kg 4500 mg/kg	-
1,2-benzisothiazol-3(2H)- one	LD50 Oral	Rat	1020 mg/kg	-
Conclusion/Summary : Based on available data, the classification criteria are not met.				

Acute toxicity estimates

Route	ATE value
Not available.	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observ	ation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-	
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irrita	nt Rabbit	-	ug l 24 hours 20	-	
	Eyes - Severe irritant	Rabbit	_	mg 20 mg	_	
1,2-benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	48 hours 5 %	-	
Conclusion/Summary	: Based on available	data, the classification	criteria are	e not met.		
<u>Sensitisation</u>						
Conclusion/Summary	: Based on available	data, the classification	criteria are	e not met.		
<u>Mutagenicity</u>						
Conclusion/Summary	: Based on available	data, the classification	criteria are	e not met.		
Carcinogenicity						
It has been observed that the o leading to significant impairme	0	•		le dust is inhale	ed in quan	itities
Conclusion/Summary	: Based on available	data, the classification	criteria are	e not met.		
Reproductive toxicity						
Conclusion/Summary	: Based on available	data, the classification	criteria are	e not met.		
Teratogenicity						
Conclusion/Summary	: Based on available	data, the classification	criteria are	e not met.		
Specific target organ toxicity	<u>y (single exposure)</u>					
Not available.						
Specific target organ toxicity	<u>y (repeated exposure</u>	1				
Not available.						
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SECTION 11: Toxicological information

Aspiration hazard

Not available.

:	Not available.
:	No known significant effects or critical hazards.
:	No known significant effects or critical hazards.
:	No known significant effects or critical hazards.
÷	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	
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	ects
Not available.	
Conclusion/Summary	: 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 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-(2-butoxyethoxy)ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute EC50 0.36 mg/l Marine water	Algae - Śkeletonema Costatum	72 hours
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SECTION 12: Ecological information					
	Acute EC50 3.7 mg/l	Daphnia - Daphnia Magna	48 hours		
	Acute LC50 1.9 mg/l Fresh water	Fish - Onorhynchus Mykiss	96 hours		
	Acute NOEC 0.15 mg/l Marine water	Algae - Skeletonema Costatum	72 hours		
2-Methyl-1,2-benzisothiazol- 3(2H)-one	Acute EC50 0.22 ppm Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours		
	Acute EC50 0.92 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours		
	Acute LC50 0.24 ppm Fresh water	Fish - <i>Oncorhynchus mykiss</i> - Juvenile (Fledgling, Hatchling, Weanling)	96 hours		
	Chronic NOEC 0.16 ppm	Fish - Pimephales promelas	32 days		

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
1,2-benzisothiazol-3(2H)-one	EU	24 % - 28 days		-	-
Conclusion/Summary : This product has not been tested for biodegradation.					
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
1,2-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

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

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment metho	ds
<u>Product</u>	
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) <u>Packaging</u>	: 080112

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SECTION 13: Disposal considerations

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	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	1	The product is only regulated as a dangerous good when transported in tank vessels.
14.6 Special precautions for user	:	Transport within user's premises: always transport in closed containers the upright and secure. Ensure that persons transporting the product know what

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

14.7 Maritime transport in : Not relevant/applicable due to nature of the product. **bulk according to IMO**

instruments

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

t

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

SECTION 15: Regulatory information

Industrial emissions (integrated pollution prevention and control) - Air	: Not list	ed			
Industrial emissions (integrated pollution prevention and control) - Water	: Not list	ed			
Explosive precursors	: Not ap	plicable.			
Ozone depleting substanc		-			
Not listed.					
Prior Informed Consent (P Not listed.	<u>IC) (649/20</u>	<u>)12/EU)</u>			
Persistent Organic Polluta Not listed.	<u>nts</u>				
Seveso Directive					
This product is not controlled	d under the	e Seveso Directive			
lational regulations					
Austria					
VbF class	: Not reg	oulated.			
Limitation of the use of organic solvents	: Permit	-			
Czech Republic					
Storage code	: IV				
<u>Denmark</u>					
Danish fire class	: IV-1				
Executive Order No. 1795/2	<u>2015</u>				
Ingredient name				Annex I Section A	Annex I Section B
titanium dioxide				Listed	-
MAL-code	: 00-1				
Protection based on MAL		ding to the regul		k involving coded pr	
		ations apply to th	e use of pers		oment:
	stipula Gener covera clothes shield	al: Gloves must t ills/protective cloth s do not adequate must be worn in w	be worn for all ing must be w ly protect skin vork involving s	work that may result in orn when soiling is so against contact with th spattering if a full mask protection is not require	soiling. Apron/ great that regular wor e product. A face is not required. In this
	stipula Gener covera clothes shield case, c In all s respira	al: Gloves must to ills/protective cloth s do not adequate must be worn in w other recommende praying operations	be worn for all hing must be w ly protect skin vork involving s ed use of eye p s in which there d arm protector	work that may result in orn when soiling is so against contact with th spattering if a full mask	soiling. Apron/ great that regular wor e product. A face is not required. In this ed.
	stipula Gener covera clothes shield case, o In all s respira approp	al: Gloves must to ills/protective cloth s do not adequate must be worn in w other recommende praying operations atory protection an oriate or as instruc- ode: 00-1 cation: When spra	be worn for all hing must be w ly protect skin vork involving s ed use of eye p s in which there d arm protecto ted.	work that may result in orn when soiling is so against contact with th spattering if a full mask protection is not require e is return spray, the fo	soiling. Apron/ great that regular wor e product. A face is not required. In thi ed. llowing must be worn ective clothing as
	stipula Gener covera clothes shield case, o In all s respira approp MAL-c Applic spray 2	al: Gloves must to ills/protective cloth s do not adequate must be worn in w other recommende praying operations atory protection an oriate or as instruc- ode: 00-1 cation: When spra	be worn for all ing must be w ly protect skin vork involving s ed use of eye p s in which there d arm protecto ted.	work that may result in orn when soiling is so against contact with the pattering if a full mask protection is not require e is return spray, the fo ors/apron/coveralls/prot	soiling. Apron/ great that regular wor e product. A face is not required. In this ed. llowing must be worn rective clothing as
	Stipula Gener covera clothes shield case, o In all s respira approp MAL-c Applic spray 2 - Arm (al: Gloves must to ills/protective cloth s do not adequate must be worn in w other recommended praying operations atory protection an oriate or as instruct ode: 00-1 cation: When spra zone. protectors must be all spraying when or is inside the spra	be worn for all ing must be w ly protect skin vork involving s ed use of eye p s in which there d arm protecto ted. aying in existin e worn. e atomisation of	work that may result in orn when soiling is so against contact with the pattering if a full mask protection is not require e is return spray, the fo ors/apron/coveralls/prot	soiling. Apron/ great that regular wor e product. A face is not required. In this ed. Ilowing must be worn ective clothing as operator is outside th

SECTION 15: Regulatory information

		Drying: Items for drying/drying ovens that are tempor rack trolleys, etc, must be equipped with a mechanical		
		fumes from wet items from passing through workers' in		
		Polishing: When polishing treated surfaces, a mask When machine grinding, eye protection must be worn. worn.		
		Caution The regulations contain other stipulations in a	addition to the above.	
		*See Regulations.		
Restrictions on use	:	Not to be used by professional users below 18 years of Working Environment Authorities Executive Order regardless of the second		
List of undesirable substances	:	Not listed		
Carcinogenic waste	:	Waste containers must be labeled: Contains a substar by Danish working environment legislation on cancer r	5	
Finland				
France				
Social Security Code, Articles L 461-1 to L 461-7	:	2-(2-butoxyethoxy)ethanol	RG 84	
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities where medical surveillance: not applicable	nich require reinforced	
<u>Germany</u>				
Storage class (TRGS 510)	:	10		
Hazardous incident ordina	nc	<u>e</u>		
This product is not controlled	u	nder the Germany Hazardous Incident Ordinance.		
Hazard class for water	:	1		
Technical instruction on air quality control	:	TA-Luft Number 5.2.5: 28.5%		
ΑΟΧ	:	The product contains organically bound halogens and value in waste water.	can contribute to the AOX	
<u>Italy</u>				
D.Lgs. 152/06	1	Not determined.		
<u>Netherlands</u>				
Water Discharge Policy (ABM)	:	A(3) Hazardous for aquatic organisms, may have long aquatic environment. Decontamination effort: A	-term hazardous effects in	
<u>Norway</u>				
<u>Sweden</u>				
Switzerland				
VOC content	:	Exempt.		
International regulations				
Chemical Weapon Convention	on	List Schedules I, II & III Chemicals		
Not listed.				
Montreal Protocol Not listed.				
Stockholm Convention on P Not listed.	<u>'er</u>	sistent Organic Pollutants		
Rotterdam Convention on Prior Informed Consent (PIC)				
Rotterdam Convention on P Not listed.	<u>riC</u>	<u>r mormea Consent (PIC)</u>		

SECTION 15: Regulatory information

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2	Chemi	cal	safety
asse	ssmen	It	

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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

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

Not classified.

Full text of abbreviated H statements

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful 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.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

i	
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 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
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. 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
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revision	

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Notice to reader

Version

SECTION 16: Other information

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

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