# 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 9005

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

### 1.1 Product identifier Product name

: AQUATOP VIRTA 22 - RAL 9005

**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 elements	:	Contains adipohydrazide and 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction. Safety data sheet available on request. Contains biocidal products for in-can preservation: BIT and DTBMA and MBIT.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and	:	

#### 2.3 Other hazards

articles

# **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.

: None known.

Other hazards which do 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
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	<0.036	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]
			See Section 16 for the full text of the H statements declared above.		

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

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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.

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# **SECTION 4: First aid measures**

#### **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	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
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 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.
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 i 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.
		chemical incidents.

if

# **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. 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.

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# SECTION 6. Accidental release measures

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	: Not available.
solutions	

# **SECTION 8: Exposure controls/personal protection**

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values	
2-(2-butoxyethoxy)ethanol	Regulation on Limit Values - MAC (Austria, 4/2021) TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> . PEAK 15 minutes: 15 ppm 4 times per shift. PEAK 15 minutes: 101.2 mg/m <sup>3</sup> 4 times per shift.	
✓(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 <sup>3</sup> . STEL 15 minutes: 101.2 mg/m <sup>3</sup> .	
2-(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 <sup>3</sup> . Limit value 15 minutes: 101.2 mg/m <sup>3</sup> . Limit value 15 minutes: 15 ppm. Limit value 8 hours: 10 ppm.	
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SECTION 8: Exposure controls/personal protection			
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 <sup>3</sup> . STELV 15 minutes: 15 ppm. ELV 8 hours: 67.5 mg/m <sup>3</sup> . ELV 8 hours: 10 ppm.		
	Department of labour inspection (Cyprus, 7/2021) STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> .		
₽-(2-butoxyethoxy)ethanol	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) TWA 8 hours: 67.5 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm.		
	Working Environment Authority (Denmark, 3/2024) TWA 8 hours: 68 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101 mg/m <sup>3</sup> .		
₽-(2-butoxyethoxy)ethanol	Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> .		
₽-(2-butoxyethoxy)ethanol	EU OEL (Europe, 1/2022) TWA 8 hours: 67.5 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm.		
2-(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 <sup>3</sup> .		
₽-(2-butoxyethoxy)ethanol	Ministry of Labor (France, 6/2024) STEL 15 minutes: 101.2 mg/m <sup>3</sup> . 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 <sup>3</sup> . 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-butoxyethoxy)ethanol	<ul> <li>TRGS 900 OEL (Germany, 6/2024)</li> <li>TWA 8 hours: 67 mg/m<sup>3</sup>.</li> <li>PEAK 15 minutes: 100.5 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 10 ppm.</li> <li>PEAK 15 minutes: 15 ppm.</li> <li>DFG MAC-values list (Germany, 7/2023) Develop C.</li> <li>TWA 8 hours: 67 mg/m<sup>3</sup>.</li> <li>PEAK 15 minutes: 100.5 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</li> <li>TWA 8 hours: 10 ppm.</li> <li>PEAK 15 minutes: 15 ppm 4 times per shift [Interval: 1 hour].</li> </ul>		
1,2-benzisothiazol-3(2H)-one	DFG MAC-values list (Germany, 7/2023) Skin sensitiser.		

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2-(2-butoxyethoxy)ethanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) STEL 15 minutes: 101.2 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm.
2-(2-butoxyethoxy)ethanol	<b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)</b> TWA 8 hours: 67.5 mg/m <sup>3</sup> . PEAK 15 minutes: 101.2 mg/m <sup>3</sup> . 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 <sup>3</sup> . STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm.
2-(2-butoxyethoxy)ethanol	<ul> <li>NAOSH (Ireland, 4/2024) Notes: EU derived Occupational Exposure Limit Values</li> <li>OELV 8 hours: 10 ppm.</li> <li>OELV 15 minutes: 101.2 mg/m<sup>3</sup>.</li> <li>OELV 8 hours: 67.5 mg/m<sup>3</sup>.</li> <li>OELV 15 minutes: 15 ppm.</li> </ul>
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 <sup>3</sup> . Short Term 15 minutes: 15 ppm. Short Term 15 minutes: 101.2 mg/m <sup>3</sup> .
2-(2-butoxyethoxy)ethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) STEL 15 minutes: 101.2 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> .
2-(2-butoxyethoxy)ethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) TWA 8 hours: 67.5 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm.
-(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 <sup>3</sup> . TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> .
2-(2-butoxyethoxy)ethanol	EU OEL (Europe, 1/2022) TWA 8 hours: 67.5 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> . 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 <sup>3</sup> . STEL 15 minutes: 100 mg/m <sup>3</sup> . 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/m³.

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₽-(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 <sup>3</sup> . STEL 15 minutes: 100 mg/m <sup>3</sup> .
(2-butoxyethoxy)ethanol	<b>Portuguese Institute of Quality (Portugal, 11/2014)</b> TWA 8 hours: 10 ppm. Form: Inhalable fraction and vapor.
✓(2-butoxyethoxy)ethanol	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) VLA 8 hours: 67.5 mg/m <sup>3</sup> . Short term 15 minutes: 101.2 mg/m <sup>3</sup> . Short term 15 minutes: 15 ppm. VLA 8 hours: 10 ppm.
	Government regulation SR c. 355/2006 (Slovakia, 7/2024) Inhalation sensitiser. TWA 8 hours: 67.5 mg/m <sup>3</sup> . STEL 15 minutes: 101.2 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm.
₽-(2-butoxyethoxy)ethanol	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 <sup>3</sup> . TWA 8 hours: 10 ppm. KTV 15 minutes: 101.2 mg/m <sup>3</sup> 4 times per shift [time between two 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-butoxyethoxy)ethanol	National institute of occupational safety and health (Spain, 1/2024) TWA 8 hours: 67.5 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> .
₽-(2-butoxyethoxy)ethanol	Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 10 ppm. TWA 8 hours: 68 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm. STEL 15 minutes: 101 mg/m <sup>3</sup> .
(2-butoxyethoxy)ethanol	<b>SUVA (Switzerland, 1/2024)</b> TWA 8 hours: 67 mg/m <sup>3</sup> . Form: vapour and aerosols. STEL 15 minutes: 101 mg/m <sup>3</sup> . Form: vapour and aerosols. STEL 15 minutes: 15 ppm. Form: vapour and aerosols. TWA 8 hours: 10 ppm. Form: vapour and aerosols.
₽-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> .

**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		
Product/ingredient name		Result

2-(2-butoxyethoxy)ethanol	<b>DNEL - General population - Long term - Oral</b> 6.25 mg/kg bw/day Effects: Systemic
	DNEL - Workers - Long term - Inhalation 67.5 mg/m³ Effects: Local
	<b>DNEL - Workers - Short term - Inhalation</b> 101.2 mg/m³ <u>Effects</u> : Local
adipohydrazide	DNEL - Workers - Long term - Inhalation 17.5 mg/m <sup>3</sup> Effects: Systemic
1,2-benzisothiazol-3(2H)-one	<b>DNEL - General population - Long term - Dermal</b> 0.345 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 0.966 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 1.2 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 6.81 mg/m <sup>3</sup> Effects: Systemic

### 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 meas	<u>ures</u>		
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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.		
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# **SECTION 8: Exposure controls/personal protection**

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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 legisla In some cases, fume scrubbers, filters or engineering modifications to the pr 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	: Black.
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and	1 (C)
boiling range	

	Ingredient name	°C	°F	Method
	water	100	212	
	2-(2-butoxyethoxy)ethanol	225 to 227.6	437 to 441.7	
Flammability : Not ava		ilable.		

Tammability	
Lower and upper explosion limit	: Lo Up
Flash point	: Clo

ower: Not applicable.

pper: Not applicable.

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Closed cup: >100°C (>212°F)

# Auto-ignition temperature

Ingredient name	°C	°F	Method
2-butoxyethoxy)ethanol	210	410	DIN 51794

Decomposition temperature	: Not available.		
рН	: ❷ to 8.5 [Conc. (% w/w): 100%]		
Viscosity	: Not available.		
Solubility(ies)	: · · · · · · · · · · · · · · · · · · ·		
Not available.			
Solubility in water	: Not available.		

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

### Vapour pressure

	Va	Vapour Pressur		Va	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.			<u> </u>		

# Density

: 1 g/cm<sup>3</sup>

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Vapour density	: Not available.
Particle characteristics	
Median particle size	: Not applicable.
9.2 Other information	
9.2.1 Information with reg	ard to physical hazard classes
<b>Explosive properties</b>	: Not available.
<b>Oxidising properties</b>	: Not available.
9.2.2 Other safety charact	eristics
Not applicable.	
SECTION 10: Stabi	ity 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 Incom	patible materials	1	No specific data.
			ne opeenie aata

10.6 Hazardous	: Under normal conditions of storage and use, hazardous decomposition products	
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

2-(2-butoxyethoxy)ethanol

Result Rabbit - Dermal - LD50 2700 mg/kg

**Rat - Oral - LD50** 4500 mg/kg <u>Toxic effects</u>: Behavioral - Tetany Lung, Thorax, or Respiration - Dyspnea Liver - Other changes

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

Rat - Oral - LD50 1020 mg/kg

# **Conclusion/Summary [Product]** : Not 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)
QUATOP VIRTA 22	N/A	N/A	N/A	710.4	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

# Skin corrosion/irritation

**Product/ingredient name** 

Result

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7,2-benzisothiazol-3(2H)-one		Human - Skin - Mild irritant Duration of treatment/exposure: 48 ho Amount/concentration applied: 5 %	urs
Conclusion/Summary [Product]	: Not available		
Serious eye damage/eye irritation			
Product/ingredient name 2-(2-butoxyethoxy)ethanol		Result Rabbit - Eyes - Moderate irritant Duration of treatment/exposure: 24 ho Amount/concentration applied: 20 mg	urs
		Rabbit - Eyes - Severe irritant Amount/concentration applied: 20 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		
<mark>Germ cell mutagenicity</mark> Not available.			
Conclusion/Summary [Product]	: Not available		
Carcinogenicity Not available.			
Conclusion/Summary [Product]	: Not available		
Reproductive toxicity Not available.			
Conclusion/Summary [Product]	: Not available		
Specific target organ toxicity (sing Not available.	<u>le exposure)</u>		
<mark>Specific target organ toxicity (repe</mark> Not available.	ated exposure)		
Aspiration hazard			

# **SECTION 11: Toxicological information**

SECTION TT: TOXICOL	ogical mormation					
Not available.	Not available.					
Information on likely routes	formation on likely routes of exposure					
Not available.	Not available.					
Potential acute health effect	<u>s</u>					
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 phy	vsical, 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 effect	cts 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>cts</u>					
Not available.						
Conclusion/Summary [Product] : 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.

**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			
2-(2-butoxyethoxy)ethanol		<b>Acute - LC50 -</b> Fish - Bluegill - <u>Size</u> : 33 to 75 r 1300000 μg/l [9 <u>Effect</u> : Mortality	<i>Lepomis macrochiru</i> mm 96 hours]	IS	
1,2-benzisothiazol-3(2H)-one	<b>Acute - LC50 - Fresh water</b> OECD [Fish, Acute Toxicity Test] Fish - Trout - <i>Onorhynchus Mykiss</i> 1.9 mg/l [96 hours]				
		<b>Acute - EC50</b> OECD 202 [Da	phnia sp. Acute Imm	obilization Test and	
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# **SECTION 12: Ecological information**

Reproduction Test] Daphnia - Daphnia - Daphnia Magna 3.7 mg/l [48 hours]

#### Acute - EC50 - Marine water

OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - Skeletonema Costatum 0.36 mg/l [72 hours]

Acute - NOEC - Marine water OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - Skeletonema Costatum 0.15 mg/l [72 hours]

**Conclusion/Summary [Product]** : Not available.

# 12.2 Persistence and degradability

Produ	ict/ing	redien	t name
-------	---------	--------	--------

2-benzisothiazol-3(2H)-one

Result EU 24% [28 days]

### **Conclusion/Summary [Product]** : Not available.

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

Product/ingredient name	logKoc	Кос
<ul> <li>2-(2-butoxyethoxy)ethanol adipohydrazide</li> <li>1,2-benzisothiazol-3(2H)-one</li> </ul>		36.5981 55.2165 73.142

#### **Results of PMT and vPvM assessment**

Product/ingredient name	PMT	Ρ	Μ	Т	vPvM	vP	vM
<ul> <li>2-(2-butoxyethoxy)ethanol adipohydrazide</li> <li>1,2-benzisothiazol-3(2H)-one</li> </ul>	No No No						

**Mobility** 

: Not available. **Conclusion/Summary** 

: 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]

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
<ul> <li>2-(2-butoxyethoxy)ethanol adipohydrazide</li> <li>1,2-benzisothiazol-3(2H)-one</li> </ul>	No No No						

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

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S	SECTION 12: Ecological information								
	Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB	
	2-(2-butoxyethoxy)ethanol adipohydrazide 1,2-benzisothiazol-3(2H)-one	No No No							

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

#### 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	IATA				
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.				

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# **SECTION 14: Transport information**

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

14.7 Maritime transport in bulk according to IMO

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

instruments

# SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

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 : Dther EU regulations		
Industrial emissions : Not liste (integrated pollution prevention and control) - Air	d	
Industrial emissions : Not liste (integrated pollution prevention and control) - Water	d	
Explosive precursors : Not app Ozone depleting substances (EU 2024 Not listed.		
Prior Informed Consent (PIC) (649/201 Not listed.	1 <u>2/EU)</u>	
Persistent Organic Pollutants Not listed.		
Seveso Directive This product is not controlled under the S Iational regulations	Seveso Direc	tive.
Austria Limitation of the use of : Permitte organic solvents	ed.	
Belgium Book VI carcinogenic agents annex V	I.2-1 - VI.2-3	
Ingredient name		Status
Noirs de charbon		Listed
Czech Republic Storage code : IV Denmark		
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# **SECTION 15: Regulatory information**

Fire class

: 🕅-1

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Executive	Order	No.	1795/2015

Ingredient name		Annex I Section A	Annex I Section B	
zarbon black respirable		Listed	-	
MAL-code	: 00-1	+		

```
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: 00-1

**Application:** When spraying in existing\* spray booths, if the operator is outside the spray zone.

- Arm protectors 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, 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 po should be air-fed.	oint liquids. Any respirato	ry protective equipment	
Restrictions on use	:	Not to be used by professional users Working Environment Authorities Ex			
List of undesirable substances	:	Not listed			
Carcinogenic waste	:	Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.			
<u>Finland</u>					
<u>France</u>					
Social Security Code, Articles L 461-1 to L 461-7	:	2-(2-butoxyethoxy)ethanol	RG	84	
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable			
<u>Germany</u>					
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# **SECTION 15: Regulatory information**

# 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	%
<b>5</b> .2.1 5.2.4 [III] 5.2.5 5.2.5 [I]		Total dust Gaseous inorganic substances Organic substances Organic substances	4.6 0.069 33.2 2.2
ΑΟΧ		e product contains organically bound halogens and can contribute to the lue in waste water.	AOX
Italy			
D.Lgs. 152/06	: No	ot determined.	
Netherlands			
Water Discharge Policy (ABM)		<ol> <li>Low hazard for aquatic organisms, may have long-term hazardous eff uatic environment. Decontamination effort: A</li> </ol>	fects in
<u>Norway</u>			
<u>Sweden</u>			
Switzerland			
VOC content	: Ex	empt.	
ternational regulations			
hemical Weapon Convent	tion Lis	st Schedules I, II & III Chemicals	
Not listed.			
<u>Iontreal Protocol</u> Not listed.			
Stockholm Convention on	Porsis	tent Organic Pollutants	
Not listed.			
Rotterdam Convention on	Prior Ir	normed Consent (PIC)	
Not listed.			
INECE Aarhus Protocol or	1 POPs	and Heavy Metals	
Not listed.			
.2 Chemical safety sessment		is product contains substances for which Chemical Safety Assessments quired.	s are st
ECTION 16: Other i	infor	mation	
Indicators information that I	has chr	anged 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
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative
Procedure used to deriv	ve the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

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# **SECTION 16: Other information**

### Full text of abbreviated H statements

<b>H</b> 302	Harmful if swallowed.	
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.	

### Full text of classifications [CLP/GHS]

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

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

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