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

SAFETY DATA SHEET



AQUATOP VIRTA 12 - BASE 3

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

1.1 Product identifier Product name

: AQUATOP VIRTA 12 - BASE 3

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 : Contains adipohydrazide. 1.2-benzisothiazol-3(2H)-one and 2-Methyl-1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction. elements Safety data sheet available on request. **Annex XVII - Restrictions** 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.

: 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	<0.05	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.

<u>Type</u>

[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.

SECTION 4: First aid	
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 sympton	ns and effects, both acute and delayed
Over-exposure signs/symp	i <u>toms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
4.3 Indication of any immedi	ate 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: Firefigh	ting measures
5.1 Extinguishing media	
Suitable extinguishing	: Use an extinguishing agent suitable for the surrounding fire.
media	
media Unsuitable extinguishing media	: None known.
Unsuitable extinguishing media	: None known. from the substance or mixture
Unsuitable extinguishing media	
Unsuitable extinguishing media 5.2 Special hazards arising f Hazards from the	 irom the substance or mixture In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials:
Unsuitable extinguishing media 5.2 Special hazards arising f Hazards from the substance or mixture	From the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.
Unsuitable extinguishing media 5.2 Special hazards arising f Hazards from the substance or mixture Hazardous combustion products	 from the substance or mixture In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: carbon dioxide carbon monoxide
Unsuitable extinguishing media 5.2 Special hazards arising f Hazards from the substance or mixture Hazardous combustion products	 from the substance or mixture In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: carbon dioxide carbon monoxide
Unsuitable extinguishing media 5.2 Special hazards arising f Hazards from the substance or mixture Hazardous combustion products 5.3 Advice for firefighters Special protective actions	 From the substance or mixture In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides 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

For non-emergency personnel	:	No action shall be taken involving ar Evacuate surrounding areas. Keep entering. Do not touch or walk throu protective equipment.	unnecessary and unp	rotected personnel from
For emergency responders	:	If specialised clothing is required to information in Section 8 on suitable information in "For non-emergency p	and unsuitable materia	
6.2 Environmental precautions	:	Avoid dispersal of spilt material and and sewers. Inform the relevant aut pollution (sewers, waterways, soil or	thorities if the product	
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SECTION 6: Accidental release measures

6.3 Methods and material for containment 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	: Eating, drinking and smoking should be prohibited in areas where this material is
occupational hygiene	handled, stored and processed. Workers should wash hands and face before

tional hygiene handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)	
Recommendations	

: Not available.

Industrial sector specific solutions

SECTION 8: Exposure controls/personal protection

: Not available.

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.		
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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 (Czecl Republic, 5/2021). 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.
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, 7/2021). 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, 10/2021). TWA: 67 mg/m³ 8 hours. PEAK: 100.5 mg/m³, 4 times per shift, 15 minutes. TWA: 10 ppm 8 hours.
1,2-benzisothiazol-3(2H)-one	PEAK: 15 ppm, 4 times per shift, 15 minutes. DFG MAC-values list (Germany, 10/2021). Skin sensitiser.

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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/m ³ 15 minutes. OELV-8hr: 67.5 mg/m ³ 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-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-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-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.
-(2-butoxyethoxy)ethanol	EU OEL (Europe, 10/2019). 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	Ministry of Social Affairs and Employment, Legal limit value (Netherlands, 12/2022). 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: 7.4 ppm 8 hours. STEL,15-min: 14.8 ppm 15 minutes.
2-(2-butoxyethoxy)ethanol	FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 10 ppm 8 hours. TWA: 68 mg/m ³ 8 hours.

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SECTION 8: Exposure controls/personal protection		
2-(2-butoxyethoxy)ethanol	Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). 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). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor	
2-(2-butoxyethoxy)ethanol	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 67.5 mg/m ³ 8 hours. Short term: 101.2 mg/m ³ 15 minutes. Short term: 15 ppm 15 minutes. VLA: 10 ppm 8 hours.	
₽-(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. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes.	
	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 67.5 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. KTV: 101.2 mg/m ³ , 4 times per shift, 15 minutes. KTV: 15 ppm, 4 times per shift, 15 minutes.	
 	National institute of occupational safety and health (Spain, 4/2021). TWA: 67.5 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m ³ 15 minutes.	
₽-(2-butoxyethoxy)ethanol	Work environment authority Regulation 2018:1 (Sweden, 9/2021). TWA: 10 ppm 8 hours. TWA: 68 mg/m ³ 8 hours. STEL: 15 ppm 15 minutes. STEL: 101 mg/m ³ 15 minutes.	
₽-(2-butoxyethoxy)ethanol	SUVA (Switzerland, 1/2023). TWA: 67 mg/m ³ 8 hours. Form: vapour and aerosols 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	
✓(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 n	ame		Exposure indice	es
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/personal protection
No exposure indices known.	
Recommended monitoring :	Feference should be made to monitoring standards, such as the following:

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	Туре	Exposure	Value	Populatio	n 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		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	6.81 mg/m ³		Systemic
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	Inhalation
PNECs	
No PNECs available	
3.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airbo contaminants.
Individual protection measured	<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 perior Appropriate techniques should be used to remove potentially contaminated cloth 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 ris assessment indicates this is necessary to avoid exposure to liquid splashes, mis gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses w side-shields.
Skin protection	
Hand protection	 Chemical-resistant, impervious gloves complying with an approved standard sho be worn at all times when handling chemical products if a risk assessment indica 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 b 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 import 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 proces equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Colourless.
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	: No	t available.	•	1	
Lower and upper explosion imit		wer: Not applicable. per: Not applicable.			
Flash point	: Clo	osed cup: >100°C (>	•212°F)		
Auto-ignition temperature	:				
Ingredient name		°C	°F	Method	
2-(2-butoxyethoxy)ethanol		210	410	DIN 51794	
Decomposition temperature	: No	t available.			
рН	: 8 to	o 8.5			
Viscosity	: No	t available.			
Solubility(ies)	:				
Not available.					
Solubility in water	: No	t available.			
Partition coefficient: n-octanol/ water	: No	t applicable.			

Vapour pressure

	V	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	available.		·			
Density	: 1 g	/cm³					
/apour density	: No	available.					
Explosive properties	: No	available.					
Dxidising properties	: No	available.					
Particle characteristics							
Median particle size	: No	applicable.					

SECTION 10: Stability and reactivity

1

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 cl	assification criter	ia are not met.	

Acute toxicity estimates

Route	ATE value
halation (vapours)	603.02 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
	Even Severe irritent	Dabbit		mg	
1,2-benzisothiazol-3(2H)-one	Eyes - Severe irritant Skin - Mild irritant	Rabbit Human	-	20 mg 48 hours 5 %	-
Conclusion/Summary	: Based on available data, the		riteria are		
<u>Sensitisation</u>		classification c		not met.	
Conclusion/Summary	: Based on available data, the	e classification c	riteria are	not met	
Mutagenicity				not mot.	
Conclusion/Summary	: Based on available data, the	e classification c	riteria are	not met	
Carcinogenicity		classification c		not met.	
Conclusion/Summary	: Based on available data, the	classification o	ritoria are	not met	
Reproductive toxicity				not met.	
Conclusion/Summary	: Based on available data, the	o classification o	ritoria ara	not met	
<u>Teratogenicity</u>		Classification C		not met.	
	. Pood on available data the	. dessification a	ritorio oro	not mot	
Conclusion/Summary	: Based on available data, the	e classification c	riteria are	not met.	
Specific target organ toxicity Not available.	<u>y (single exposure)</u>				
Specific target organ toxicity Not available.	<u>y (repeated exposure)</u>				
Aspiration hazard Not available.					
nformation on likely routes	: Not available.				
of exposure					
of exposure		or critical haza	ds.		
of exposure Potential acute health effects					
of exposure Potential acute health effects Eye contact	: No known significant effects	or critical haza	rds.		
of exposure <u>Potential acute health effects</u> Eye contact Inhalation	No known significant effectsNo known significant effects	or critical hazaı or critical hazaı	rds. rds.		
of exposure Potential acute health effects Eye contact Inhalation Skin contact Ingestion	 No known significant effects No known significant effects No known significant effects 	or critical hazar or critical hazar or critical hazar	rds. rds. rds.		
of exposure Potential acute health effects Eye contact Inhalation Skin contact Ingestion	 No known significant effects No known significant effects No known significant effects No known significant effects 	or critical hazar or critical hazar or critical hazar	rds. rds. rds.		
of exposure <u>Potential acute health effects</u> Eye contact Inhalation Skin contact Ingestion Symptoms related to the physical	 No known significant effects 	or critical hazar or critical hazar or critical hazar	rds. rds. rds.		
of exposure <u>Potential acute health effects</u> Eye contact Inhalation Skin contact Ingestion <u>Symptoms related to the phys</u> Eye contact	 No known significant effects No known significant effects No known significant effects No known significant effects Sical, chemical and toxicologi No specific data. 	or critical hazar or critical hazar or critical hazar	rds. rds. rds.		

SECTION 11: Toxicological information

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Delayed and immediate effect	ts as well as chronic effects from short and long
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>ects</u>
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
2-(2-butoxyethoxy)ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
1,2-benzisothiazol-3(2H)-one	Acute EC50 0.36 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
	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 - Oncorhynchus mykiss - 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
7,2-benzisothiazol-3(2H)-one	EU	24 % - 28 days		-	-
Conclusion/Summary	: This product ha	s not been tested for	biodegrada	ation.	•
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
✓,2-benzisothiazol-3(2H)-one	-		-		Inherent

12.3 Bioaccumulative potential

ogP ow	BCF	Potential
	3.0	Low Low
'y'		•

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SECTION 12: Ecological information

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
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 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.
Hazardous waste	 Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
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
user	

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

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	:			
<u>Other EU regulations</u>				
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed			
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed			
Explosive precursors	: Not applica	able.		
Ozone depleting substance Not listed.	<u>es (1005/2009)</u>	<u>/EU)</u>		
Prior Informed Consent (P Not listed.	<u>IC) (649/2012/</u>	<u>EU)</u>		
Persistent Organic Polluta Not listed.	<u>ints</u>			
Seveso Directive This product is not controlled	d under the Se	veee Direct	ive	
National regulations	u under the Se	veso Direci	ive.	
<u>Austria</u>				
VbF class	: Not regula	ted.		
Limitation of the use of organic solvents	: Permitted.			
Czech Republic				
Storage code	: 📈			
<u>Denmark</u>				
Danish fire class	: IV-1			
MAL-code	: 00-1			

SECTION 15: Regulatory information

Protection based on MAL	-	According to the regulations on work involving coded products, the follow stipulations apply to the use of personal protective equipment:	/in
		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 w 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 case, other recommended use of eye protection is not required.	
		In all spraying operations in which there is return spray, the following must be we respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.	orn
		MAL-code: 00-1 Application: When spraying in existing* spray booths, if the operator is outside spray zone.	e the
		- Arm protectors must be worn.	
		During all spraying where atomisation occurs in cabins or spray booths where th operator is inside the spray zone and during spraying outside a closed facility, ca or booth.	
		- Full mask with combined filter, coveralls and hood must be worn.	
		Drying: Items for drying/drying ovens that are temporarily placed on such things rack trolleys, etc, must be equipped with a mechanical exhaust system to prever fumes from wet items from passing through workers' inhalation zone.	
		Polishing: When polishing treated surfaces, a mask with dust filter must be wo When machine grinding, eye protection must be worn. Work gloves must always worn.	
		Caution The regulations contain other stipulations in addition to the above.	
		*See Regulations.	
List of undesirable substances	:	Not listed	
<u>Finland</u>			
France			
Social Security Code, Articles L 461-1 to L 461-7	1	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>			
Storage class (TRGS 510)			
Hazardous incident ordina		—	
•		nder the Germany Hazardous Incident Ordinance.	
Hazard class for water Technical instruction on		✔ ✔A-Luft Number 5.2.5: 33.4%	
air quality control AOX	:	The product contains organically bound halogens and can contribute to the AOX	(
Itoly		value in waste water.	
<u>Italy</u> D.Lgs. 152/06		Not determined.	
	1		
<u>Netherlands</u>			

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CTION 15 ulatory information

Water Discharge Policy	$\vec{K}(4)$ Low hazard for aquatic organisms, may have long-term hazardous effects in
(ABM)	aquatic environment. Decontamination effort: A
Norway	
Sweden	
Switzerland	
VOC content	: Exempt.
International regulations	
Chemical Weapon Conven	tion 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.	
	POPa and Harry Matela
UNECE Aarhus Protocol or	n POPS and Heavy Metals
Not listed.	
15.2 Chemical safety	: This product contains substances for which Chemical Safety Assessments are stil
assessment	required.
SECTION 16: Other	information
Indicates information that	has changed from previously issued version.
Abbreviations and	: ATE = Acute Toxicity Estimate

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 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.
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]

SECTION 16: Other information

Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 2 Eye Dam. 1 Eye Irrit. 2	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) 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 Corr. 1C Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A	SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 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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