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

# **SAFETY DATA SHEET**



**HELO AQUA 20** 

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

1.1 Product identifier Product name

: HELO AQUA 20

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

### 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
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Telephone number: In an emergency, call 112

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] 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 wo	rd.		
Hazard statements	No known sig	gnificant effects or critic	al hazards.	
Precautionary statements				
Prevention	Not applicabl	e.		
Response	Not applicabl	e.		
Storage	Not applicabl	e.		
Disposal	Not applicabl	e.		
Supplemental label elements	reaction mas 2-methyl-2H- reaction. Safety data s preservation:	s of: 5-chloro-2-methyl isothiazol-3-one [EC no heet available on requ	-4-isothiazolin-3-one b. 220-239-6] (3:1). N est. Contains biocida ous respirable drople	isothiazol-3(2H)-one and [EC no. 247-500-7] and Iay produce an allergic al products for in-can ets may be formed when
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles				
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# **SECTION 2: Hazards identification**

#### 2.3 Other hazards

Product meets the criteria	:	This mixture does not contain any substances that are assessed to be a PBT or a
for PBT or vPvB according		vPvB.
to Population (EC) No		

to Regulation (EC) No. 1907/2006, Annex XIII Other hazards which do : None known. not result in classification

## **SECTION 3: Composition/information on ingredients**

3.2 Mixtures Product/ingredient name	: Mixture	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
₽-(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]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤3	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
EO bis(benztriazolyl) phenylpropionat	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	<0.1	Skin Sens. 1A, 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. 1, 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]
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:1)	EC: 911-418-6 CAS: 55965-84-9 Index: 613-167-00-5	<0.001	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: $C \ge 0.6\%$ Eye Dam. 1, H318: $C \ge 0.6\%$ Eye Irrit. 2, H319: $0.06\% \le C < 0.6\%$ Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 100 M [Chronic] = 100	[1]
			See Section 16 for the full text of the H statements declared above.		

# **SECTION 3: Composition/information on ingredients**

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. Contains: > 1 % TiO2

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid 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

### **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	fron	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.
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### **SECTION 5: Firefighting measures**

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	te	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. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contain and collect spillage with non-combustible, absorbent material e. g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

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

### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

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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** 

Exposure limit values
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.
<ul> <li>Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin.</li> <li>TWA 8 hours: 20 ppm.</li> <li>TWA 8 hours: 98 mg/m<sup>3</sup>.</li> <li>PEAK 30 minutes: 40 ppm 4 times per shift.</li> <li>PEAK 30 minutes: 200 mg/m<sup>3</sup> 4 times per shift.</li> </ul>
Regulation on Limit Values - MAC (Austria, 4/2021) [5-Chlor- 2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-di- hydroisothiazol-3-on (Gemisch im Verhältnis 3:1)] Skin sensitiser. TWA 8 hours: 0.05 mg/m <sup>3</sup> .
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> .
Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> .
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.
Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin. Limit value 8 hours: 98 mg/m <sup>3</sup> . Limit value 15 minutes: 246 mg/m <sup>3</sup> . Limit value 15 minutes: 50 ppm. Limit value 8 hours: 20 ppm.
Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex (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.
Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I (Croatia, 12/2023) Absorbed through skin. STELV 15 minutes: 246 mg/m <sup>3</sup> . STELV 15 minutes: 50 ppm. ELV 8 hours: 98 mg/m <sup>3</sup> . ELV 8 hours: 20 ppm.

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<b>SECTION 8: Exposure con</b>	ntrols/personal protection
2-(2-butoxyethoxy)ethanol	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-Butoxyethanol	Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> .
2-(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.
2-Butoxyethanol	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 98 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. STEL 15 minutes: 200 mg/m <sup>3</sup> . STEL 15 minutes: 40.7 ppm.
2-(2-butoxyethoxy)ethanol	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-Butoxyethanol	Working Environment Authority (Denmark, 3/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 246 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm.
2-(2-butoxyethoxy)ethanol	Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> .
2-Butoxyethanol	Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin , Sensitiser. TWA 8 hours: 98 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm.
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-Butoxyethanol	<b>EU OEL (Europe, 1/2022)</b> Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> .
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-Butoxyethanol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> .
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2(2-butoxyethoxy)ethanol       Ministry of Labor (France, 6/2024)         STEL 15 minutes: 101.2 mg/m². Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)         2-Butoxyethanol       TWA 8 hours: 67 smg/m². Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)         2-Butoxyethanol       Ministry of Labor (France, 6/2024)         2-Butoxyethoxy)ethanol       TWA 8 hours: 40 mg/m². Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)         STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)       STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit value (article R. 4412-149 of the Labor Code)         STEL 15 minutes: 100 ppm.       STEL 15 minutes: 100.5 mg/m².         PEAK 15 minutes: 100.5 mg/m².       TWA 8 hours: 67 mg/m².         PEAK 15 minutes: 100.5 mg/m².       PEAK 15 minutes: 100.5 mg/m².         PEAK 15 minutes: 100 ppm.       PEAK 15 minutes: 20 ppm.         PEAK 15 minutes: 20 ppm.       PEAK 15 minutes: 20 ppm.         PEAK 15 minutes: 20 ppm.       PEAK 15 minutes: 20 ppm.         PEAK 15 minutes: 20 ppm.       PEAK 15 minutes: 20		STEL 15 minutes: 50 ppm.
STEL 15 minutes: 101.2 mg/m². Notes: Indicative regulatory lin         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: 0.7 5 mg/m². 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)         Winistry of Labor (France, 6/2024) Absorbed through skin.         TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values (article R. 412-149 of the Labor Code)         STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit values (article R. 412-149 of the Labor Code)         STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit value (article R. 412-149 of the Labor Code)         STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit value (article R. 412-149 of the Labor Code)         STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit value (article R. 412-149 of the Labor Code)         STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit value (article R. 412-149 of the Labor Code)         STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit value (article R. 412-149 of the Labor Code)         STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit value (article R. 412-149 of the Labor Code)         STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit value (article R. 412-149 of the Labor Code)         STEL 15 minutes: 10 ppm.         PEAK 15		STEL 15 minutes: 250 mg/m <sup>3</sup> .
TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 49 mg/m <sup>2</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 246 mg/m <sup>2</sup> . Notes: Binding regulatory limit value (article R. 4412-149 of the Labor Code) STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit value (article R. 4412-149 of the Labor Code) <b>2</b> (2-butoxyethoxy)ethanol <b>TRGS 900 OEL (Germany, 6/2024)</b> TWA 8 hours: 67 mg/m <sup>2</sup> . PEAK 15 minutes: 105 ppm. PEAK 15 minutes: 105 mg/m <sup>2</sup> . PEAK 15 minutes: 105 mg/m <sup>2</sup> 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 105 mg/m <sup>2</sup> 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 105 mg/m <sup>2</sup> . PEAK 15 minutes: 205 mg/m <sup>2</sup> . PEAK 15 minutes: 205 mg/m <sup>2</sup> . TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 10 ppm. PEAK 15 minutes: 39 mg/m <sup>3</sup> 4 times per shift [Interval: 1 hour]. TWA 8 hours: 10 ppm. PEAK 15 minutes: 101.2 mg/m <sup>3</sup> . STEL 15 minutes: 102 mg/m <sup>3</sup> . STEL 15 minutes: 102 mg/m <sup>3</sup> . TWA 8 hours: 100 ppm. Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 100 ppm. Presidential Decree 307/19	(2-butoxyethoxy)ethanol	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
TWA 8 hours: 67 mg/m³.         PEAK 15 minutes: 100.5 mg/m³.         TWA 8 hours: 10 ppm.         PEAK 15 minutes: 15 ppm.         DFG MAC-values list (Germany, 7/2023) Develop C.         TWA 8 hours: 10 ppm.         PEAK 15 minutes: 100.5 mg/m³ 4 times per shift [Interval: 1 hour].         TWA 8 hours: 10 ppm.         PEAK 15 minutes: 15 ppm 4 times per shift [Interval: 1 hour].         TWA 8 hours: 49 mg/m³.         PEAK 15 minutes: 20 ppm.         PEAK 15 minutes: 20 ppm.         DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin.         TWA 8 hours: 10 ppm.         PEAK 15 minutes: 20 ppm.         DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin.         TWA 8 hours: 10 ppm.         PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour].         TWA 8 hours: 49 mg/m³.         PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour].         TWA 8 hours: 10 ppm.         PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour].         TWA 8 hours: 67 eng/m³.         PEAK 15 minutes: 10 ppm 4 times per shift [Interval: 1 hour].         TWA 8 hours: 10 ppm.         PEAK 15 minutes: 10 ppm 4 times per shift [Interval: 1 hour].         TWA 8 hours: 10 ppm.         PEAK 15 minutes: 10 ppm.         PEAK 15 minutes	2-Butoxyethanol	TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 49 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 246 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit values
TWA 8 hours: 49 mg/m³.         PEAK 15 minutes: 98 mg/m³.         TWA 8 hours: 10 ppm.         PEAK 15 minutes: 20 ppm.         DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin.         TWA 8 hours: 10 ppm.         PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour].         TWA 8 hours: 49 mg/m³.         PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour].         TWA 8 hours: 49 mg/m³.         PEAK 15 minutes: 98 mg/m³ 4 times per shift [Interval: 1 hour].         TWA 8 hours: 49 mg/m³.         PEAK 15 minutes: 98 mg/m³ 4 times per shift [Interval: 1 hour].         TWA 8 hours: 49 mg/m³.         PEAK 15 minutes: 98 mg/m³ 4 times per shift [Interval: 1 hour].         TWA 8 hours: 19 mg/m³.         PE(2-butoxyethoxy)ethanol         PF (2-butoxyethanol         Persidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021)         STEL 15 minutes: 10 ppm.         TWA 8 hours: 10 ppm.         Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin.         TWA 8 hours: 25 ppm.         TWA 8 hours: 25 ppm.         TWA 8 hours: 120 mg/m³.         F-(2-butoxyethoxy)ethanol	✓(2-butoxyethoxy)ethanol	<ul> <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><b>DFG MAC-values list (Germany, 7/2023)</b> 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> </ul>
<ul> <li>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.</li> <li>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m<sup>3</sup>.</li> <li>(2-butoxyethoxy)ethanol</li> <li>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)</li> </ul>	2-Butoxyethanol	<ul> <li>TWA 8 hours: 49 mg/m<sup>3</sup>.</li> <li>PEAK 15 minutes: 98 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 10 ppm.</li> <li>PEAK 15 minutes: 20 ppm.</li> <li><b>DFG MAC-values list (Germany, 7/2023)</b> Develop C. Absorbed through skin.</li> <li>TWA 8 hours: 10 ppm.</li> <li>PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour].</li> </ul>
<ul> <li>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.</li> <li>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m<sup>3</sup>.</li> <li>(2-butoxyethoxy)ethanol</li> <li>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)</li> </ul>	1,2-benzisothiazol-3(2H)-one	DFG MAC-values list (Germany, 7/2023) Skin sensitiser.
2-ButoxyethanolPresidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m³.2-(2-butoxyethoxy)ethanol5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)	2-(2-butoxyethoxy)ethanol	values (Greece, 9/2021) STEL 15 minutes: 101.2 mg/m³. STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m³.
	2-Butoxyethanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 25 ppm.
PEAK 15 minutes: 101.2 mg/m³. PEAK 15 minutes: 15 ppm. TWA 8 hours: 10 ppm.	2-(2-butoxyethoxy)ethanol	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.
	2-Butoxyethanol	<b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)</b> Absorbed through skin. TWA 8 hours: 98 mg/m <sup>3</sup> .

	PEAK 15 minutes: 50 ppm. TWA 8 hours: 20 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-Butoxyethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023 Absorbed through skin. STEL 15 minutes: 246 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. TWA 8 hours: 100 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm.
-(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-Butoxyethanol	<ul> <li>NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values</li> <li>OELV 8 hours: 20 ppm.</li> <li>OELV 8 hours: 98 mg/m<sup>3</sup>.</li> <li>OELV 15 minutes: 50 ppm.</li> <li>OELV 15 minutes: 246 mg/m<sup>3</sup>.</li> </ul>
Siliciumdioxide, Amorphous	NAOSH (Ireland, 4/2024) [silica, amorphous] Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 6 mg/m <sup>3</sup> . Form: inhalable dust. OELV 8 hours: 2.4 mg/m <sup>3</sup> . Form: respirable dust.
-(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> .
-Butoxyethanol	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) Absorbed through skin. Limit value 8 hours: 20 ppm. Limit value 8 hours: 98 mg/m <sup>3</sup> . Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 246 mg/m <sup>3</sup> .
-(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> .
P-Butoxyethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) Absorbed through skin. TWA 8 hours: 98 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> .
-(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-Butoxyethanol	<b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b> Absorbed through skin. TWA 8 hours: 50 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm.

	STEL 15 minutes: 100 mg/m <sup>3</sup> . STEL 15 minutes: 20 ppm.
2-(2-butoxyethoxy)ethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm.
2-Butoxyethanol	TWA 8 hours: 67.5 mg/m <sup>3</sup> . <b>Grand-Duchy Regulation 2016. Chemical agents. Annex I</b> <b>(Luxembourg, 3/2021)</b> Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 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-Butoxyethanol	<b>EU OEL (Europe, 1/2022)</b> Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> .
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-Butoxyethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 100 mg/m <sup>3</sup> . STEL 15 minutes: 246 mg/m <sup>3</sup> . TWA 8 hours: 20.4 ppm. STEL 15 minutes: 50 ppm.
-(2-butoxyethoxy)ethanol	FOR-2011-12-06-1358 (Norway, 12/2022) TWA 8 hours: 10 ppm. TWA 8 hours: 68 mg/m³.
2-Butoxyethanol	FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skir TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m <sup>3</sup> .
2-(2-butoxyethoxy)ethanol	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) TWA 8 hours: 67 mg/m <sup>3</sup> . STEL 15 minutes: 100 mg/m <sup>3</sup> .
2-Butoxyethanol	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) Absorbed through skin. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 200 mg/m <sup>3</sup> .
-(2-butoxyethoxy)ethanol	Portuguese Institute of Quality (Portugal, 11/2014)
2-Butoxyethanol	TWA 8 hours: 10 ppm. Form: Inhalable fraction and vapor. <b>Portuguese Institute of Quality (Portugal, 11/2014)</b> A3. TWA 8 hours: 20 ppm.

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SECTION 8: Exposure of	controls/personal protection
2-(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.
2-Butoxyethanol	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 98 mg/m <sup>3</sup> . VLA 8 hours: 20 ppm. Short term 15 minutes: 246 mg/m <sup>3</sup> . Short term 15 minutes: 50 ppm.
2-(2-butoxyethoxy)ethanol	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-Butoxyethanol	Government regulation SR c. 355/2006 (Slovakia, 7/2024) Absorbed through skin , Inhalation sensitiser. TWA 8 hours: 98 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm.
<b>2</b> -(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-Butoxyethanol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) Absorbed through skin. TWA 8 hours: 98 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. KTV 15 minutes: 246 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: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].
2-(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-Butoxyethanol	National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 245 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm.
2-(2-butoxyethoxy)ethanol 2-Butoxyethanol	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> . Work environment authority Regulation 2018:1 (Sweden,
	<b>11/2022)</b> Absorbed through skin. TWA 8 hours: 10 ppm.
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	TWA 8 hours: 50 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> .	
2-(2-butoxyethoxy)ethanol	SUVA (Switzerland, 1/2024) 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-Butoxyethanol	SUVA (Switzerland, 1/2024) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 49 mg/m <sup>3</sup> . STEL 15 minutes: 20 ppm. STEL 15 minutes: 98 mg/m <sup>3</sup> .	
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	<b>SUVA (Switzerland, 1/2024)</b> Sensitiser. STEL 15 minutes: 0.4 mg/m <sup>3</sup> . Form: Inhalable fraction. TWA 8 hours: 0.2 mg/m <sup>3</sup> . Form: Inhalable fraction.	
2-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> .	
2-Butoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> . TWA 8 hours: 123 mg/m <sup>3</sup> .	

### **Biological exposure indices**

Product/ingredient name	Exposure indices
No exposure indices known.	
2-Butoxyethanol	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week. Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.
No exposure indices known.	
2-Butoxyethanol	Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023) [2-butoxyethanol and its acetate] BLV: 100 mg/g Cr, 2-butoxyacetic acid [in urine]. Sampling time: end of shift (regardless of the day of the week).
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2-Butoxyethanol	<ul> <li>DFG BEI-values list (Germany, 7/2023) Notes: danger from percutaneous absorption (see p. 211 and p. 228).</li> <li>BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts.</li> <li>TRGS 903 - BEI Values (Germany, 2/2024)</li> <li>BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of the shift after several shifts.</li> </ul>
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
-Butoxyethanol	<b>NAOSH (Ireland, 1/2011)</b> BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
No exposure indices known.	
Butoxyethanol	<b>Portuguese Institute of Quality (Portugal, 11/2014)</b> BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.
No exposure indices known.	
No exposure indices known.	
2-Butoxyethanol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.
₽-Butoxyethanol	National institute of occupational safety and health (Spain, 1/2024) VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling
	time: end of shift.
No exposure indices known.	SUNA (Switzerland 1/2021)
2-Butoxyethanol	<b>SUVA (Switzerland, 1/2024)</b> BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
₽-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.
procedures E as va at of (V fo	eference should be made to monitoring standards, such as the following: aropean Standard EN 689 (Workplace atmospheres - Guidance for the sessment of exposure by inhalation to chemical agents for comparison with limit lues and measurement strategy) European Standard EN 14042 (Workplace mospheres - Guide for the application and use of procedures for the assessment exposure to chemical and biological agents) European Standard EN 482 /orkplace atmospheres - General requirements for the performance of procedures r the measurement of chemical agents) Reference to national guidance for the determination of hazardous substances will also be
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required.

DNELs/DMELs	Provit
Product/ingredient name 2-(2-butoxyethoxy)ethanol	<b>Result</b> DNEL - General population - Long term - Oral 6.25 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 67.5 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Short term - Inhalation</b> 101.2 mg/m³ <u>Effects</u> : Local
2-Butoxyethanol	<b>DNEL - General population - Long term - Oral</b> 6.3 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Short term - Oral</b> 26.7 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalatio</b> 59 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 98 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - General population - Short term - Inhalatio</b> 147 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Short term - Inhalation</b> 246 mg/m³ <u>Effects</u> : Local
	<b>DNEL - General population - Short term - Inhalatio</b> 426 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Short term - Inhalation</b> 1091 mg/m <sup>3</sup> <u>Effects</u> : 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 - Inhalatio</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
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and	DNEL - General population - Long term - Inhalatio 0.02 mg/m <sup>3</sup>
	<b>-</b>

2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Effects: Local

**DNEL - Workers - Long term - Inhalation** 0.02 mg/m<sup>3</sup> <u>Effects</u>: Local

**DNEL - General population - Short term - Inhalation** 0.04 mg/m<sup>3</sup> <u>Effects</u>: Local

DNEL - Workers - Short term - Inhalation 0.04 mg/m<sup>3</sup> <u>Effects</u>: Local

**DNEL - General population - Long term - Oral** 0.09 mg/kg bw/day <u>Effects</u>: Systemic

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

#### **PNECs**

Not available.

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8.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	<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	<ul> <li>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.</li> </ul>
Other skin protection	<ul> <li>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.</li> </ul>
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
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<b>Environmental exposure</b>	
controls	

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **SECTION 9: Physical and chemical properties**

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

#### 9.1 Information on basic physical and chemical properties

: Liquid.
: Various
: Slight
: Not available.
: Not available.
:

	Ingredient name		°C	°F	Method
	water		100	212	
	2-Butoxyethanol		171 to 171.5	339.8 to 340.7	IP 123-93
F	lammability	: Not ava	ilable.	1	'
	Lower and upper explosion : Kower: 0.8% (2-(2-butoxyethoxy)ethanol) limit Upper: 9.4% (2-(2-butoxyethoxy)ethanol)				
Flash point : Closed cup: >100°C (>212°F)					

#### Auto-ignition temperature

Ingredient name	°C	°F	Method
2-(2-butoxyethoxy)ethanol	210	410	DIN 51794
2-Butoxyethanol	230	446	DIN 51794

Decomposition temperature	1	Not available.
рН	:	Not available.
Viscosity	:	Not available.
Solubility(ies)	:	
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/ water	;	Not applicable.

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# Vapour pressure

	Va	apour Pres	sure at 20°C	Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
water	17.5	2.3					
2-Butoxyethanol	0.75006	0.1					
Relative density	: Not	available.					
Density	: 1 g/	′cm³					
Vapour density	: Not	available.					
Particle characteristics							
Median particle size	: Not	applicable.					

#### 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

# **SECTION 9: Physical and chemical properties**

Explosive properties	: Not available.

**Oxidising properties** : Not available.

### 9.2.2 Other safety characteristics

Not applicable.

# **SECTION 10: Stability 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
2-(2-butoxyethoxy)ethanol	<b>Rabbit - Dermal - LD50</b> 2700 mg/kg
	<b>Rat - Oral - LD50</b> 4500 mg/kg <u>Toxic effects</u> : Behavioral - Tetany Lung, Thorax, or Respiration - Dyspnea Liver - Other changes
1,2-benzisothiazol-3(2H)-one	<b>Rat - Oral - LD50</b> 1020 mg/kg
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	<b>Rat - Oral - LD50</b> 53 mg/kg <u>Toxic effects</u> : Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration - Respiratory depression

### 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)
ELO AQUA 20 2-(2-butoxyethoxy)ethanol 2-Butoxyethanol 1,2-benzisothiazol-3(2H)-one reaction mass of: 5-chloro-2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	17094.2 4500 1200 450 53	72153.5 2700 N/A N/A 50	N/A N/A N/A N/A N/A	136.1 N/A 3 N/A 0.5	N/A N/A N/A 0.21 N/A

### Skin corrosion/irritation

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SECTION 11: Toxicological i	informati	on
Product/ingredient name 2-Butoxyethanol		Result Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg
1,2-benzisothiazol-3(2H)-one		Human - Skin - Mild irritant Duration of treatment/exposure: 48 hours Amount/concentration applied: 5 %
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	and	Human - Skin - Severe irritant Amount/concentration applied: 0.01 %
Conclusion/Summary [Product] :	Not available	
Serious eye damage/eye irritation		
Product/ingredient name		Result
2-(2-butoxyethoxy)ethanol		Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 20 mg
		Rabbit - Eyes - Severe irritant Amount/concentration applied: 20 mg
2-Butoxyethanol		Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 100 mg
		Rabbit - Eyes - Severe irritant Amount/concentration applied: 100 mg
Conclusion/Summary [Product] :	Not available	
Respiratory corrosion/irritation Not available.		
Conclusion/Summary [Product] :	Not available	
Respiratory or skin sensitization Not available.		
Skin Conclusion/Summary [Product] :	Not available	
Respiratory Conclusion/Summary [Product] :	Not available	
Germ cell mutagenicity Not available.		
Conclusion/Summary [Product] :	Not available	
Carcinogenicity Not available.		
Conclusion/Summary [Product] :	Not available	
Date of issue/Date of revision : 13/02/	2025 Date of	previous issue : 30/08/2023 Version : 12 17/

# **SECTION 11: Toxicological information**

Reproductive toxicity Not available.

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

### <u>Specific target organ toxicity (single exposure)</u> Not available.

# Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard			
Not available.			
Information on likely routes	of exposure		
Not available.			
Potential acute health effect	S		
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 ph	ysical, 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 effe	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	ects		
Not available.			
Conclusion/Summary [Pro	oduct] : 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 [Pro	<ul> <li>induct] : inhe 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.</li> </ul>		

#### **11.2.2 Other information**

Not available.

### **SECTION 12: Ecological information**

2.1 Toxicity	
Product/ingredient name	Result
2-(2-butoxyethoxy)ethanol	Acute - LC50 - Fresh water
	Fish - Bluegill - <i>Lepomis macrochirus</i>
	<u>Size</u> : 33 to 75 mm 1300000 μg/l [96 hours]
	Effect: Mortality
2-Butoxyethanol	Acute - LC50 - Marine water
	Fish - Inland silverside - <i>Menidia beryllina</i>
	<u>Size</u> : 40 to 100 mm 1250000 μg/l [96 hours]
	Effect: Mortality
	Acute - LC50 - Marine water
	Crustaceans - Common shrimp, sand shrimp - Crangon
	<i>crangon</i> 800000 μg/l [48 hours]
	Effect: Mortality
1,2-benzisothiazol-3(2H)-one	Acute - LC50 - Fresh water
	OECD [Fish, Acute Toxicity Test]
	Fish - Trout - <i>Onorhynchus Mykiss</i> 1.9 mg/l [96 hours]
	Acute - EC50
	OECD 202 [Daphnia sp. Acute Immobilization Test and
	Reproduction Test] Daphnia - Daphnia - <i>Daphnia Magna</i>
	3.7 mg/l [48 hours]
	Acute - EC50 - Marine water
	OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - <i>Skeletonema Costatum</i>
	0.36 mg/l [72 hours]
	Acute - NOEC - Marine water
	OECD 201 [Alga, Growth Inhibition Test]
	Algae - Algae - <i>Skeletonema Costatum</i> 0.15 mg/l [72 hours]
Conclusion/Summary [Product] : Not	available.
2.2 Persistence and degradability	
Product/ingredient name	Result
1,2-benzisothiazol-3(2H)-one	EU

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

EU 24% [28 days]

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

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

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<ul> <li>2-(2-butoxyethoxy)ethanol</li> <li>2-Butoxyethanol</li> <li>1,2-benzisothiazol-3(2H)-one</li> </ul>	1	-	Low
	0.81	-	Low
	-	3.2	Low

### 12.4 Mobility in soil

# **SECTION 12: Ecological information**

### Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
<ul> <li>2-butoxyethoxy)ethanol</li> <li>2-Butoxyethanol</li> <li>1,2-benzisothiazol-3(2H)-one</li> </ul>	1.56 1.83 1.86	36.5981 67.3685 73.142

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

2-ButoxyethanolNoNoNoEO bis(benztriazolyl)NoNoNophenylpropionat1,2-benzisothiazol-3(2H)-oneNoNo	No No No No No No No No	No N No N No N	0
EO bis(benztriazolyl) phenylpropionatNoNoNo1,2-benzisothiazol-3(2H)-one reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-NoNoNo	No No	No N	0
phenylpropionat 1,2-benzisothiazol-3(2H)-one No No No reaction mass of: 5-chloro- No No No 2-methyl-4-isothiazolin-			
1,2-benzisothiazol-3(2H)-oneNoNoNoreaction mass of: 5-chloro-NoNoNo2-methyl-4-isothiazolin-NoNoNo	No No	No N	^
2-methyl-4-isothiazolin-			0
and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No No	No N	0

Mobility

**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
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No

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

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No

**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.

## **SECTION 12: Ecological information**

Conclusion/Summary [Product]

Phe 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, 200128
Packaging	
Methods of disposal :	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions :	This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for user

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

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

## **SECTION 15: Regulatory information**

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

Laboling		
Other EU regulations		
Industrial emissions (integrated pollution prevention and control) - Air	:	Not listed
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed
Explosive precursors	:	Not applicable.
Ozone depleting substance	S	(EU 2024/590)
Not listed.		
Prior Informed Consent (PIC Not listed.	<u>C)</u>	<u>(649/2012/EU)</u>
Persistent Organic Pollutan Not listed.	<u>its</u>	
Seveso Directive		
This product is not controlled	ur	nder the Seveso Directive.
National regulations		
<u>Austria</u>		
Limitation of the use of organic solvents	:	Permitted.
<u>Belgium</u>		
Czech Republic		
Storage code	:	IV
<u>Denmark</u>		
Fire class	:	<mark>₩</mark> -1
MAL-code	:	1-3
Protection based on MAL	:	According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:
		<b>General:</b> 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

**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, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 1-3 Application: When using scraper or knife, brush, roller, etc, for pre- and posttreatments in cabins or booths of the existing\* facility type, if the operator is inside the spray zone. - Coveralls must be worn. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. - Gas filter mask and coveralls must be worn. When spraying in existing\* spray booths, if the operator is outside the spray zone. - Full mask with combined filter, arm protectors and apron must be worn. During non-atomising spraying in existing\* facilities of the combined-cabin, spraycabin and spray-booth type where the operator is working inside the spray zone. - Air-supplied half mask and eye protection must be worn. During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth. - Air-supplied full 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. **Restrictions on use** Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work. : Not listed List of undesirable substances Finland France Social Security Code, : 2-(2-butoxyethoxy)ethanol RG 84 Articles L 461-1 to L 461-7 2-Butoxyethanol RG 84 : Act of July 11, 1977 determining the list of activities which require reinforced **Reinforced medical** medical surveillance: not applicable surveillance Germany Storage class (TRGS 510) : 10 Hazardous incident ordinance This product is not controlled under the Germany Hazardous Incident Ordinance. Hazard class for water : 1 Technical instruction on air quality control (TA Luft)

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# **SECTION 15: Regulatory information**

Number [Class]       Description       %         \$2.1       Total dust       30.6         5.2.5       Organic substances       6         AOX       :       The product contains organically bound halogens and can contribute to the AOX value in waste water.         Italy       D.1gs.152/06       :       Not determined.         Netherlands       Water Discharge Policy       :       A(2) Toxic for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A         Norway       Sweden       Switzerland       VOC (w/w): 5.5%         International regulations       Chemical Weapon Convention List Schedules I, II & III Chemicals       Not listed.         Montreal Protocol       Not listed.       Stockholm Convention on Persistent Organic Pollutants       Not listed.         Not listed.       UNECE Aarhus Protocol on POPs and Heavy Metals       Not listed.       Not listed.			
5.2.5       Organic substances Organic substances       6.8 6         AOX       : The product contains organically bound halogens and can contribute to the AOX value in waste water.         Italy       D.Lgs. 152/06       : Not determined.         Netherlands       Water Discharge Policy (ABM)       : A(2) Toxic for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A         Norway       Sweden         Switzerland       VOC (w/w): 5.5%         International regulations       Chemical Weapon Convention List Schedules I, II & III Chemicals         Not listed.       Montreal Protocol         Not listed.       Stockholm Convention on Persistent Organic Pollutants Not listed.         Rotterdam Convention on Prior Informed Consent (PIC) Not listed.       UNECE Aarhus Protocol on POPs and Heavy Metals	Number [Class]	Description	%
Italy         D.Lgs. 152/06       : Not determined.         Netherlands         Water Discharge Policy       : A(2) Toxic for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A         Norway       sweden         Switzerland       voc content       : VOC (w/w): 5.5%         International regulations       Chemical Weapon Convention List Schedules I, II & III Chemicals         Not listed.       Not listed.         Stockholm Convention on Persistent Organic Pollutants         Not listed.         Rotterdam Convention on Prior Informed Consent (PIC)         Not listed.         UNECE Aarhus Protocol on POPs and Heavy Metals	5.2.5	Organic substances	6.8
D.Lgs. 152/06       : Not determined.         Netherlands	ΑΟΧ		the AOX
Netherlands         Water Discharge Policy       : A(2) Toxic for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A         Norway	<u>Italy</u>		
Water Discharge Policy       : A(2) Toxic for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A         Norway	D.Lgs. 152/06	: Not determined.	
(ABM)       environment. Decontamination effort: A         Norway         Sweden         Switzerland         VOC content       : VOC (w/w): 5.5%         International regulations         Chemical Weapon Convention List Schedules I, II & III Chemicals         Not listed.         Montreal Protocol         Not listed.         Stockholm Convention on Persistent Organic Pollutants         Not listed.         Rotterdam Convention on Prior Informed Consent (PIC)         Not listed.         UNECE Aarhus Protocol on POPs and Heavy Metals	Netherlands		
Sweden         Switzerland         VOC content       : VOC (w/w): 5.5%         International regulations         Chemical Weapon Convention List Schedules I, II & III Chemicals         Not listed.         Montreal Protocol         Not listed.         Stockholm Convention on Persistent Organic Pollutants         Not listed.         Rotterdam Convention on Prior Informed Consent (PIC)         Not listed.         UNECE Aarhus Protocol on POPs and Heavy Metals			ts in aquatic
Switzerland         VOC content       : VOC (w/w): 5.5%         International regulations         Chemical Weapon Convention List Schedules I, II & III Chemicals         Not listed.         Montreal Protocol         Not listed.         Stockholm Convention on Persistent Organic Pollutants         Not listed.         Rotterdam Convention on Prior Informed Consent (PIC)         Not listed.         UNECE Aarhus Protocol on POPs and Heavy Metals	<u>Norway</u>		
VOC content       : VOC (w/w): 5.5%         International regulations       Chemical Weapon Convention List Schedules I, II & III Chemicals         Chemical Weapon Convention List Schedules I, II & III Chemicals       Not listed.         Montreal Protocol       Not listed.         Not listed.       Stockholm Convention on Persistent Organic Pollutants         Not listed.       Not listed.         Rotterdam Convention on Prior Informed Consent (PIC)         Not listed.         UNECE Aarhus Protocol on POPs and Heavy Metals	<u>Sweden</u>		
International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Rotterdam Convention on Prior Informed Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals	Switzerland		
Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.  Montreal Protocol Not listed.  Stockholm Convention on Persistent Organic Pollutants Not listed.  Rotterdam Convention on Prior Informed Consent (PIC) Not listed.  UNECE Aarhus Protocol on POPs and Heavy Metals	VOC content	: VOC (w/w): 5.5%	
Not listed.         Montreal Protocol         Not listed.         Stockholm Convention on Persistent Organic Pollutants         Not listed.         Rotterdam Convention on Prior Informed Consent (PIC)         Not listed.         UNECE Aarhus Protocol on POPs and Heavy Metals	International regulations		
Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Rotterdam Convention on Prior Informed Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals	Chemical Weapon Convention	on List Schedules I, II & III Chemicals	
Not listed.         Stockholm Convention on Persistent Organic Pollutants         Not listed.         Rotterdam Convention on Prior Informed Consent (PIC)         Not listed.         UNECE Aarhus Protocol on POPs and Heavy Metals	Not listed.		
Not listed. Rotterdam Convention on Prior Informed Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals			
Rotterdam Convention on Prior Informed Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals		ersistent Organic Pollutants	
Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals	Not listed.		
UNECE Aarhus Protocol on POPs and Heavy Metals	Rotterdam Convention on Pr	ior Informed Consent (PIC)	
	Not listed.		
Not listed.	UNECE Aarhus Protocol on F	POPs and Heavy Metals	

# **15.2 Chemical safety**<br/>assessment: This product contains substances for which Chemical Safety Assessments are still<br/>required.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>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</li> </ul>
	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

SECTION 16: Other information		
H301 Tox	ic if swallowed.	
H302 Har	mful if swallowed.	
H310 Fata	al in contact with skin.	
H314 Cau	ises severe skin burns and eye damage.	
H315 Cau	uses skin irritation.	
H317 May	/ cause an allergic skin reaction.	
H318 Cau	ises serious eye damage.	
H319 Cau	uses serious eye irritation.	
H330 Fata	al if inhaled.	
	ic if inhaled.	
	y toxic to aquatic life.	
	y toxic to aquatic life with long lasting effects.	
	ic to aquatic life with long lasting effects.	
EUH071 Cor	rosive to the respiratory tract.	
Full text of classifica	tions [CLP/GHS]	
Acute Tox. 2	ACUTE TOXICITY - Category 2	
Acute Tox. 3	ACUTE TOXICITY - Category 3	
Acute Tox. 4	ACUTE TOXICITY - Category 4	
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
Skin Corr. 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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-	HELO AQUA 20 All variants	

#### 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.