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

# **SAFETY DATA SHEET**



AQUATOP VIRTA 38 - BASE T

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

### 1.1 Product identifier Product name

: AQUATOP VIRTA 38 - BASE T

**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

### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Sens. 1, H317

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

Hazard pictograms



Signal word Hazard statements	: Warning : H317 - May cause an allergic skin reaction.
Precautionary statements	
Prevention	: P280 - Wear protective gloves. P261 - Avoid breathing vapour.
Response	<ul> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> </ul>
Storage	: Not applicable.
Disposal	<ul> <li>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazardous ingredients	: Contains: EO bis(benztriazolyl)phenylpropionat; adipohydrazide; 1,2-benzisothiazol-3 (2H)-one and 2-methyl-2H-isothiazol-3-one

# SECTION 2: Hazards identification

Supplemental label elements	: Contains biocidal products for in-can preservation: BIT and 2,2'-dithiobis[N- methylbenzamide] and Bronopol and MIT and OIT and MBIT.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do : None known. not result in classification

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

EC: 203-6 CAS: 112 Index: 60 EO bis(benztriazolyl) phenylpropionat adipohydrazide REACH # 01-00000 EC: 400-8 CAS: 104 Index: 60 REACH # 01-21199 EC: 213-6 CAS: 107 2-Butoxyethanol REACH # 01-21194 EC: 203-6 CAS: 111 Index: 60	475104-44         961-6         2-34-5         93-096-00-8         #:         015075-76         830-7         4810-48-2         97-176-00-3         #:         962900-36         999-5         71-93-8	:1	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 2, H411 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1] [2]
phenylpropionat       01-00000         EC: 400-8       CAS: 104         Index: 60       REACH #         adipohydrazide       REACH #         adipohydrazide       REACH #         2-Butoxyethanol       REACH #         01-21194       EC: 203-9         CAS: 111       Index: 60         1,2-benzisothiazol-3(2H)-       EC: 220-7         one       EC: 220-7	015075-76 830-7 4810-48-2 07-176-00-3 #: 962900-36 999-5 71-93-8		Aquatic Chronic 2, H411 Skin Sens. 1, H317 Aquatic Chronic 2,	-	
01-21199 EC: 213-5 CAS: 107 2-Butoxyethanol REACH # 01-21194 EC: 203-5 CAS: 111 Index: 60 1,2-benzisothiazol-3(2H)- one EC: 220-7 CAS: 263	962900-36 999-5 71-93-8	:1	Aquatic Chronic 2,	-	[1]
01-21194 EC: 203-9 CAS: 111 Index: 60 1,2-benzisothiazol-3(2H)- one EC: 220-7 CAS: 263	t: <				
one CAS: 263	175108-36 905-0	:1	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]
		:0.036	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = $0.21$ mg/l Skin Sens. 1, H317: C $\ge 0.036\%$ M [Acute] = 1 M [Chronic] = 1	[1]
2-methyl-2H-isothiazol- 3-one Index: 61		0.0015	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.11 mg/l	[1]
Date of issue/Date of revision : 01/0		of previous iss	: 31/03/2025	Version : 3	2/28

			Aquatic Chronic 1, H410 EUH071	Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 10 M [Chronic] = 1	
2-Octyl-2H-isothiazol-3-one	EC: 247-761-7 CAS: 26530-20-1 Index: 613-112-00-5	<0.001	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 125 mg/kg ATE [Dermal] = 311 mg/kg ATE [Inhalation (dusts and mists)] = $0.27$ mg/l 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.		

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. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation		Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact		Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion		Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	,	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed <u>Over-exposure signs/symptoms</u>

Date of issue/Date of revision	: 01/04/2025	Date of previous issue	: 31/03/2025	Version : 3	3/28
AQUATOP VIRTA 38 - BASE T				Label No :47463	3

Eye contact	No specific data.					
Inhalation	: No specific data.					
Skin contact	Adverse symptoms may include the following: irritation redness					
Ingestion	No specific data.					
4.3 Indication of any immedia	medical attention and special treatment needed					
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	Э				
Specific treatments	No specific treatment.					
SECTION 5: Firefight	g 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 fi	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 burs	;t.				
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide					
5.3 Advice for firefighters						
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incid there is a fire. No action shall be taken involving any personal risk or without suitable training.	lent if				
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 chemical incidents.	s)				

6.1 Personal precautions, protective equipment and emergency procedures

erri i ereeriai preedaatierie, pre	teente equipitent and entergency 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a

: 01/04/2025 Date of previous issue

licensed waste disposal contractor.

### **SECTION 6: Accidental release measures**

Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilt product. 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

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

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

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

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

### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient n	Exposure limit values				
2-(2-butoxyethoxy)ethanol 2-Butoxyethanol		TWA 8 hours: 67. PEAK 15 minutes PEAK 15 minutes <b>Regulation on Lin</b> through skin. TWA 8 hours: 20 TWA 8 hours: 98	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. <b>Regulation on Limit Values - MAC (Austria, 4/2021)</b> At through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> . PEAK 30 minutes: 40 ppm 4 times per shift.		
ate of issue/Date of revision	: 01/04/2025	Date of previous issue	: 31/03/2025	Version : 3 5/28	
QUATOP VIRTA 38 - BASE T				Label No :47463	

#### SECTION 8: Exposure controls/personal protection PEAK 30 minutes: 200 mg/m<sup>3</sup> 4 times per shift. 2-methyl-2H-isothiazol-3-one Regulation on Limit Values - MAC (Austria, 4/2021) [5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-dihydroisothiazol-3-on (Gemisch im Verhältnis 3:1)] Skin sensitiser. TWA 8 hours: 0.05 mg/m<sup>3</sup>. Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed 2-Octyl-2H-isothiazol-3-one through skin, Sensitiser. TWA 8 hours: 0.05 mg/m<sup>3</sup>. Form: Inhalable fraction. CEIL: 0.05 mg/m<sup>3</sup>. Form: Inhalable fraction. 2-(2-butoxyethoxy)ethanol Limit values (Belgium, 12/2023) STEL 15 minutes: 15 ppm. TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m<sup>3</sup>. STEL 15 minutes: 101.2 mg/m<sup>3</sup>. Limit values (Belgium, 12/2023) Absorbed through skin. 2-Butoxyethanol 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 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. 2-Butoxyethanol 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. 2-(2-butoxyethoxy)ethanol Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) STELV 15 minutes: 101.2 mg/m<sup>3</sup>. STELV 15 minutes: 15 ppm. ELV 8 hours: 67.5 mg/m<sup>3</sup>. ELV 8 hours: 10 ppm. 2-Butoxyethanol 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. 2-(2-butoxyethoxy)ethanol Department of labour inspection (Cyprus, 7/2021) STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 ma/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>. Date of issue/Date of revision :01/04/2025 · 31/03/2025 Date of previous issue Version : 3 6/28

AQUATOP VIRTA 38 - BASE T

SECTION 8: Exposure	controls/	personal protect	ion	
2-(2-butoxyethoxy)ethanol		Government regula Republic, 12/2023) TWA 8 hours: 67.5 TWA 8 hours: 10 pp STEL 15 minutes: 1 STEL 15 minutes: 1	mg/m³. om. l01.2 mg/m³.	ublic PEL/NPK-P (Czech
2-Butoxyethanol			tion of Czech Rep Absorbed through s ig/m <sup>3</sup> . om. 200 mg/m <sup>3</sup> .	ublic PEL/NPK-P (Czech skin.
2-(2-butoxyethoxy)ethanol		Working Environme TWA 8 hours: 68 m TWA 8 hours: 10 p STEL 15 minutes: 1 STEL 15 minutes: 1	ng/m³. om. I5 ppm.	mark, 3/2024)
2-Butoxyethanol			ent Authority (Den om. Ig/m³. 246 mg/m³.	mark, 3/2024) Absorbed
2-(2-butoxyethoxy)ethanol		Occupational expose 4/2024) TWA 8 hours: 10 pp TWA 8 hours: 67.5	om.	ation No. 293 (Estonia,
2-Butoxyethanol			sure limits, Regula rough skin,Sensiti ig/m³. om. 246 mg/m³.	ation No. 293 (Estonia, iser.
2-(2-butoxyethoxy)ethanol		EU OEL (Europe, 1/ TWA 8 hours: 67.5 TWA 8 hours: 10 pp STEL 15 minutes: 1 STEL 15 minutes: 1	mg/m³. om. l01.2 mg/m³.	
2-Butoxyethanol		EU OEL (Europe, 1/ TWA 8 hours: 20 pp TWA 8 hours: 98 m STEL 15 minutes: 5 STEL 15 minutes: 2	2 <b>022)</b> Absorbed thr om. ig/m³. 50 ppm.	rough skin.
2-(2-butoxyethoxy)ethanol		Institute of Occupation (Finland, 10/2021) TWA 8 hours: 10 pp TWA 8 hours: 68 m	om.	stry of Social Affairs
2-Butoxyethanol			<b>tional Health, Mini</b> Absorbed through slopm. Ig/m³. 50 ppm.	i <b>stry of Social Affairs</b> kin.
2-(2-butoxyethoxy)ethanol		values (decree of 30- STEL 15 minutes: 1 values (decree of 30- TWA 8 hours: 67.5 values (decree of 30-	101.2 mg/m <sup>3</sup> . Notes -06-2004 modified) 15 ppm. Notes: India -06-2004 modified) mg/m <sup>3</sup> . Notes: India -06-2004 modified) om. Notes: Indicativ	cative regulatory limit cative regulatory limit
Date of issue/Date of revision	: 01/04/2025	Date of previous issue	: 31/03/2025	Version : 3 7/28

Version : 3 7/28 Label No :47463

SECTION 8: Exposure (	controls/	personal protec	tion	
2-Butoxyethanol		TWA 8 hours: 10 p (article R. 4412-149 TWA 8 hours: 49 r (article R. 4412-149 STEL 15 minutes: values (article R. 44 STEL 15 minutes:	of the Labor Code) ng/m <sup>3</sup> . Notes: Bindin of the Labor Code) 246 mg/m <sup>3</sup> . Notes: E 12-149 of the Labor	regulatory limit values g regulatory limit values Binding regulatory limit
2-(2-butoxyethoxy)ethanol		TWA 8 hours: 67 r PEAK 15 minutes: TWA 8 hours: 10 r	ng/m <sup>3</sup> . 100.5 mg/m <sup>3</sup> . ppm. 15 ppm. <b>ist (Germany, 7/202</b> ng/m <sup>3</sup> . 100.5 mg/m <sup>3</sup> 4 times ppm.	<b>3)</b> Develop C. s per shift [Interval: 1 hour]. shift [Interval: 1 hour].
2-Butoxyethanol		TWA 8 hours: 49 r PEAK 15 minutes: TWA 8 hours: 10 p PEAK 15 minutes: <b>DFG MAC-values I</b> through skin. TWA 8 hours: 10 p PEAK 15 minutes: TWA 8 hours: 49 r	98 mg/m <sup>3</sup> . opm. 20 ppm. <b>ist (Germany, 7/202</b> opm. 20 ppm 4 times per ng/m <sup>3</sup> .	orbed through skin. 3) Develop C. Absorbed shift [Interval: 1 hour]. er shift [Interval: 1 hour].
1,2-benzisothiazol-3(2H)-one 2-methyl-2H-isothiazol-3-one 2-Octyl-2H-isothiazol-3-one		DFG MAC-values I TRGS 900 OEL (Go TWA 8 hours: 0.05 PEAK 15 minutes: DFG MAC-values I through skin, Skin TWA 8 hours: 0.05	sensitiser. 5 mg/m³. Form: inhala 0.1 mg/m³ 4 times p	<ol> <li>Skin sensitiser.</li> <li>sorbed through skin.</li> <li>able fraction.</li> <li>halable fraction.</li> <li>Develop C. Absorbed</li> </ol>
2-(2-butoxyethoxy)ethanol		Presidential Decrevel values (Greece, 9/2 STEL 15 minutes: STEL 15 minutes: TWA 8 hours: 67.5 TWA 8 hours: 10 p	<b>2021)</b> 101.2 mg/m³. 15 ppm. 5 mg/m³.	itional exposure limit
2-Butoxyethanol		Presidential Decre	e 307/1986: Occupa 2021) Absorbed throu opm.	<b>tional exposure limit</b> ugh skin.
2-(2-butoxyethoxy)ethanol		5/2020. (II. 6.) ITM TWA 8 hours: 67.5 PEAK 15 minutes: PEAK 15 minutes: TWA 8 hours: 10 p	101.2 mg/m³. 15 ppm.	2/2023)
2-Butoxyethanol			ng/m³. 246 mg/m³. 50 ppm.	2/2023) Absorbed through
Date of issue/Date of revision	: 01/04/2025	Date of previous issue	: 31/03/2025	Version : 3 8/28

<b>SECTION 8: Exposure cont</b>	trols/personal protection
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-(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>
2-(2-butoxyethoxy)ethanol	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) Limit value 8 hours: 10 ppm. Limit value 8 hours: 67.5 mg/m <sup>3</sup> . Short Term 15 minutes: 15 ppm. Short Term 15 minutes: 101.2 mg/m <sup>3</sup> .
2-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-(2-butoxyethoxy)ethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) STEL 15 minutes: 101.2 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> .
2-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-(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	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) 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.
Date of issue/Date of revision : 01/C	04/2025 Date of previous issue : 31/03/2025 Version : 3 9/28

SECTION 8: Exposure controls/personal protection			
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	<b>EU OEL (Europe, 1/2022)</b> 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-(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 skin. 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-(2-butoxyethoxy)ethanol 2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014) TWA 8 hours: 10 ppm. Form: Inhalable fraction and vapor. Portuguese Institute of Quality (Portugal, 11/2014) A3. TWA 8 hours: 20 ppm.		

Date of issue/Date of revision AQUATOP VIRTA 38 - BASE T : 01/04/2025 Date of previous issue

: 31/03/2025

SECTION 8: Exposure 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.
2-Butoxyethanol	<ul> <li>VLA 8 hours: 10 ppm.</li> <li>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin.</li> <li>VLA 8 hours: 98 mg/m<sup>3</sup>.</li> <li>VLA 8 hours: 20 ppm.</li> <li>Short term 15 minutes: 246 mg/m<sup>3</sup>.</li> <li>Short term 15 minutes: 50 ppm.</li> </ul>
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.
2-(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-Octyl-2H-isothiazol-3-one	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: 0.05 mg/m <sup>3</sup> . Form: Inhalable fraction. KTV 15 minutes: 0.1 mg/m <sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. Form: Inhalable fraction.
2-(2-butoxyethoxy)ethanol	National institute of occupational safety and health (Spain, 1/2024) TWA 8 hours: 67.5 mg/m <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.
Date of issue/Date of revision       : 01/04/2025	Date of previous issue         : 31/03/2025         Version         : 3         11/28

2-(2-butoxyethoxy)ethanol	Work environment authority Regulation 2018:1 (Sweden, 11/2022)
	TWA 8 hours: 10 ppm.
	TWA 8 hours: 68 mg/m <sup>3</sup> .
	STEL 15 minutes: 15 ppm.
	STEL 15 minutes: 101 mg/m <sup>3</sup> .
2-Butoxyethanol	Work environment authority Regulation 2018:1 (Sweden,
	<b>11/2022)</b> Absorbed through skin. TWA 8 hours: 10 ppm.
	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.
2-Butoxyethanol	TWA 8 hours: 10 ppm. Form: vapour and aerosols. <b>SUVA (Switzerland, 1/2024)</b> Absorbed through skin.
2-Buloxyellianol	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> .
2-Octyl-2H-isothiazol-3-one	SUVA (Switzerland, 1/2024) Absorbed through skin, Sensitise
	TWA 8 hours: 0.05 mg/m <sup>3</sup> . Form: Inhalable fraction.
	STEL 15 minutes: 0.1 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: $101.2 \text{ mg/m}^3$ .
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 na	ime		Exposure indi	ces
No exposure indices known.				
No exposure indices known.				
No exposure indices known.				
No exposure indices known.				
No exposure indices known.				
2-Butoxyethanol		Biological Expose Biological limit val acid (after hydrolys at the end of the w Biological limit val	ure Tests (Czech Re ues: 0.17 mmol/mmo is) [in urine]. Samplir eek. ues: 200 mg/g creati n urine]. Sampling tim	bublic Limit Values of epublic, 9/2015) of creatinine, butoxyacetic ng time: the end of the shift nine, butoxyacetic acid ne: the end of the shift at
No exposure indices known.				
No exposure indices known.				
No exposure indices known.				
No exposure indices known.				
	:01/04/2025 D	ate of previous issue	: 31/03/2025	Version : 3 12/2
QUATOP VIRTA 38 - BASE T				Label No :47463

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).
2-Butoxyethanol	DFG BEI-values list (Germany, 7/2023) Notes: danger from
	percutaneous absorption (see p. 211 and p. 228). 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. <b>TRGS 903 - BEI Values (Germany, 2/2024)</b> 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 shift after several shifts.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
2-Butoxyethanol	<b>NAOSH (Ireland, 1/2011)</b> BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end o shift - As soon as possible after exposure ceases.
No exposure indices known.	
2-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.
2-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.	
2-Butoxyethanol	SUVA (Switzerland, 1/2024)
,	BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [iu urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
2-Butoxyethanol	<b>EH40/2005 BMGVs (United Kingdom (UK), 1/2020)</b> BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.

: 01/04/2025 Date of previous issue

: 31/03/2025

# SECTION 8: Exposure controls/personal protection

procedures <u>DNELs/DMELs</u> Product/ingredient name	European Si assessment values and r atmosphere of exposure (Workplace for the meas	hould be made to mon andard EN 689 (Work) of exposure by inhalat neasurement strategy) s - Guide for the applica to chemical and biolog atmospheres - Genera surement of chemical a for methods for the deter Result	blace atmospheres - ( ion to chemical agent European Standard ation and use of proce ical agents) Europea I requirements for the gents) Reference to ermination of hazardo	Guidance for the s for comparison with I EN 14042 (Workplace edures for the assessm n Standard EN 482 performance of proce- national guidance ous substances will also	nent dures
2-(2-butoxyethoxy)ethanol		6.25 mg/kg b <u>Effects</u> : Syste <b>DNEL - Work</b> 67.5 mg/m <sup>3</sup> <u>Effects</u> : Local <b>DNEL - Work</b> 101.2 mg/m <sup>3</sup> <u>Effects</u> : Local	emic kers - Long term - In kers - Short term - In	halation halation	
adipohydrazide		17.5 mg/m³ <u>Effects</u> : Syste	<b>xers - Long term - In</b> emic	nalation	
2-Butoxyethanol		<b>DNEL - Gene</b> 6.3 mg/kg bw <u>Effects</u> : Syste		ng term - Oral	
		DNEL - Gene 26.7 mg/kg b <u>Effects</u> : Syste		ort term - Oral	
		<b>DNEL - Gene</b> 59 mg/m³ <u>Effects</u> : Syste	eral population - Lon	ıg term - Inhalation	
		<b>DNEL - Work</b> 98 mg/m³ <u>Effects</u> : Syste	t <mark>ers - Long term - In</mark> emic	halation	
		<b>DNEL - Gene</b> 147 mg/m³ <u>Effects</u> : Local	eral population - Sho	ort term - Inhalation	
		<b>DNEL - Work</b> 246 mg/m³ <u>Effects</u> : Local	kers - Short term - In	halation	
		<b>DNEL - Gene</b> 426 mg/m³ <u>Effects</u> : Syste	eral population - Sho emic	ort term - Inhalation	
		<b>DNEL - Work</b> 1091 mg/m³ <u>Effects</u> : Syste	t <mark>ers - Short term - In</mark> emic	halation	
1,2-benzisothiazol-3(2H)-one		<b>DNEL - Gene</b> 0.345 mg/kg <u>Effects</u> : Syste		ıg term - Dermal	
		DNEL - Work	ters - Long term - De	ermal	
Date of issue/Date of revision	: 01/04/2025	Date of previous issue	: 31/03/2025	Version : 3	14/28

sissue : 31/

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

0.966 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - General population - Long term - Inhalation** 1.2 mg/m<sup>3</sup> <u>Effects</u>: Systemic

**DNEL - Workers - Long term - Inhalation** 6.81 mg/m<sup>3</sup> <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 0.021 mg/m<sup>3</sup> Effects: Local

DNEL - Workers - Long term - Inhalation 0.021 mg/m<sup>3</sup> Effects: Local

**DNEL - General population - Long term - Oral** 0.027 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Short term - Inhalation 0.043 mg/m<sup>3</sup> <u>Effects</u>: Local

DNEL - Workers - Short term - Inhalation 0.043 mg/m<sup>3</sup> Effects: Local

**DNEL - General population - Short term - Oral** 0.053 mg/kg bw/day <u>Effects</u>: Systemic

### **PNECs**

Not available.

2-methyl-2H-isothiazol-3-one

8.2 Exposure controls		
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airbo contaminants.	orne
Individual protection meas	<u>s</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 peri Appropriate techniques should be used to remove potentially contaminated cloth Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	hing.
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.	sts,
Skin protection		

: 01/04/2025 Date of previous issue

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

	e controls/personal 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.		
	Recommendations : Wear suitable gloves tested to EN374.		
	> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm		
	Not recommended polyvinyl alcohol (PVA) gloves		
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other importan aspects of use.		
	Filter type (spray application): A P		
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		

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

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

### 9.1 Information on basic physical and chemical properties

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

### boiling range

Ingredient name		°C	°F	Method		
water		100	212			
Dipropylenglycoldimethylether		175	347			
Flammability	: Not ava	ilable.	i	ŀ		
Lower and upper explosion limit		Not applicabl Not applicabl				
Flash point	: Closed	cup: >100°C	(>212°F)			
Auto-ignition temperature	:					
Ingredient name		°C	°F	Method		
Dipropylenglycoldimethylether		165	329			
2-(2-butoxyethoxy)ethanol		210	410	DIN 51794		
Decomposition temperature	: Not ava	ilable.				
рН	: 8.5 to 9	.1 [Conc. (%	w/w): 100%]			
Viscosity	: Not ava	ilable.				
Solubility(ies)	:					
ate of issue/Date of revision	: 01/04/2025	Date of previ	ous issue :	31/03/2025	Version : 3	16/28
QUATOP VIRTA 38 - BASE T				L	Label No :4746	63

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

2

Not available.

Solubility in water	: Not available.
---------------------	------------------

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

### Vapour pressure

	Va	pour Press	ure at 20°C	Va	apour pres	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
Dipropylenglycoldimethylether	0.52	0.069				
Relative density	: Not	available.	ł	ŀ	•	·

Density	: 1 g/cm³
Vapour density	: Not available.
Particle characteristics	

: Not applicable.

### 9.2 Other information

9.2.1 Information with regard to	physical hazard classes
Explosive properties	: Not available.
Oxidising properties	: Not available.
9.2.2 Other safety characteristic	S

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	lefined in Regulation (EC) No 1272/2008
Acute toxicity	
Product/ingredient name	Result
2-(2-butoxyethoxy)ethanol	Rabbit - Dermal - LD50
	2700 mg/kg
	Rat - Oral - LD50
	4500 mg/kg
	<u>Toxic effects</u> : Behavioral - Tetany Lung, Thorax, or Respiration - Dyspnea Liver - Other changes
1,2-benzisothiazol-3(2H)-one	Rat - Oral - LD50
	1020 mg/kg
2-methyl-2H-isothiazol-3-one	Rat - Inhalation - LC50 Dusts and mists
Date of issue/Date of revision : 01/04.	2025 Date of previous issue : 31/03/2025 Version : 3 17/28
AQUATOP VIRTA 38 - BASE T	Label No :47463

# **SECTION 11: Toxicological information**

0.11 mg/l [4 hours]

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

Rat - Oral - LD50

550 mg/kg

Rabbit - Dermal - LD50 690 mg/kg

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

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
AQUATOP VIRTA 38	N/A	N/A	N/A	750.0	N/A
2-(2-butoxyethoxy)ethanol	4500	2700	N/A	N/A	N/A
2-Butoxyethanol	1200	N/A	N/A	3	N/A
1,2-benzisothiazol-3(2H)-one	450	N/A	N/A	N/A	0.21
2-methyl-2H-isothiazol-3-one	100	300	N/A	N/A	0.11
2-Octyl-2H-isothiazol-3-one	125	311	N/A	N/A	0.27

Skin corrosion/irritation
---------------------------

**Product/ingredient name** 

2-Butoxyethanol

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

### Result

Amount/concentration applied: 500 mg **Human - Skin - Mild irritant** <u>Duration of treatment/exposure</u>: 48 hours <u>Amount/concentration applied</u>: 5 %

Rabbit - Skin - Mild irritant

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

#### Serious eye damage/eye irritation

Product/ingredient name	Result
2-(2-butoxyethoxy)ethanol	Rabbit - Eyes - Moderate irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 20 mg
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 20 mg
2-Butoxyethanol	Rabbit - Eyes - Moderate irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 100 mg
2-Octyl-2H-isothiazol-3-one	Rabbit - Eyes - Severe irritant Amount/concentration applied: 100 mg
Conclusion/Summary [Product] : Not availab	le.
Respiratory corrosion/irritation Not available.	

Conclusion/Summary [Product] : Not available.

: 01/04/2025 Date of previous issue

# **SECTION 11: Toxicological information**

### **Respiratory or skin sensitization** Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

### Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

### **Carcinogenicity**

Not available.

Conclusion/Summary [Product] : Not available.

### **Reproductive toxicity**

Not available.

Conclusion/Summary [Product] : Not available.

### Specific target organ toxicity (single exposure) 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 effects	5	
Eye contact	:	No known significant effects or critical hazards.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phy	/si	cal, chemical and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Delayed and immediate effect	:ts	as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>		
Potential immediate effects	;	Not available.
Potential delayed effects	1	Not available.
Long term exposure		
Date of issue/Date of revision		: 01/04/2025 Date of previous issue : 31/03/2025 Version : 3 1
AQUATOP VIRTA 38 - BASE T		Label No :47463

19/28

# **SECTION 11: Toxicological information**

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
Conclusion/Summary [Pr	oduct] : Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

### 11.2 Information on other hazards

**11.2.1 Endocrine disrupting properties** 

Not available.

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

12.1 Toxicity				
Product/ingredient name 2-(2-butoxyethoxy)ethanol		<mark>Result</mark> Acute - LC50 - Fish - Bluegill - <u>Size</u> : 33 to 75 n 1300000 μg/l [9 <u>Effect</u> : Mortality	<i>Lepomis macrochirus</i> nm 6 hours]	
2-Butoxyethanol		<b>Acute - LC50 -</b> Fish - Inland silv <u>Size</u> : 40 to 100 1250000 μg/l [9 <u>Effect</u> : Mortality	verside - <i>Menidia beryll</i> mm 6 hours]	lina
		<b>Acute - LC50 -</b> Crustaceans - C <i>crangon</i> 800000 μg/l [48 <u>Effect</u> : Mortality	Common shrimp, sand	shrimp - <i>Crangon</i>
1,2-benzisothiazol-3(2H)-one			cute Toxicity Test] norhynchus Mykiss	
		Reproduction T	nnia - Daphnia Magna	ilization Test and
			a, Growth Inhibition Te Skeletonema Costatun	
		Acute - NOEC OECD 201 [Alg	- Marine water a, Growth Inhibition Te	st]
Date of issue/Date of revision	: 01/04/2025	Date of previous issue	: 31/03/2025	Version : 3 2
				1 abol No 1/7/62

	Algae - Algae - Skeletonema Costatum
	0.15 mg/l [72 hours]
2-methyl-2H-isothiazol-3-one	Acute - EC50 - Fresh water US EPA Daphnia - Water flea - <i>Daphnia magna</i> <u>Age</u> : <24 hours 0.18 ppm [48 hours] <u>Effect</u> : Intoxication
	<b>Acute - LC50 - Fresh water</b> US EPA Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> <u>Weight</u> : 0.73 g 0.07 ppm [96 hours] <u>Effect</u> : Mortality
2-Octyl-2H-isothiazol-3-one	<b>Acute - EC50 - Fresh water</b> US EPA Daphnia - Water flea - <i>Daphnia magna</i> <u>Age</u> : <24 hours 107 ppb [48 hours] <u>Effect</u> : Intoxication
	Acute - LC50 - Fresh water US EPA Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> <u>Weight</u> : 0.7 g 47 ppb [96 hours] <u>Effect</u> : Mortality
	<b>Chronic - NOEC - Fresh water</b> US EPA Daphnia - Water flea - <i>Daphnia magna</i> 74 ppb [21 days] <u>Effect</u> : No Effect Coded
	<b>Chronic - NOEC</b> US EPA Fish - Fathead minnow - <i>Pimephales promelas</i> 8.5 ppb [35 days] <u>Effect</u> : Growth
Conclusion/Summary [Product] : Not av	vailable.

### 12.2 Persistence and degradability

### Product/ingredient name

1,2-benzisothiazol-3(2H)-one	EU 24% [28 days]

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
1,2-benzisothiazol-3(2H)-one	-	-	Inherent

Result

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-(2-butoxyethoxy)ethanol	1	-	Low
2-Butoxyethanol	0.81	-	Low
1,2-benzisothiazol-3(2H)-one	-	3.2	Low
2-Octyl-2H-isothiazol-3-one	2.45	-	Low

: 01/04/2025 Date of previous issue

: 31/03/2025

# **SECTION 12: Ecological information**

### 12.4 Mobility in soil

### Soil/water partition coefficient

Product/ingredient name	logKoc	Кос	
2-(2-butoxyethoxy)ethanol	1.56	36.5981	
adipohydrazide	1.74	55.2165	
2-Butoxyethanol	1.83	67.3685	
1,2-benzisothiazol-3(2H)-one	1.86	73.142	
2-methyl-2H-isothiazol-3-one	1.74	54.9187	
2-Octyl-2H-isothiazol-3-one	2.85	706.605	

#### Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	Μ	Т	vPvM	vP	vM
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
EÒ bis(benztriazolyl)	No	No	No	No	No	No	No
phenylpropionat							
adipohydrazide	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
2-methyl-2H-isothiazol-3-one	No	No	No	No	No	No	No
2-Octyl-2H-isothiazol-3-one	No	No	No	No	No	No	No

**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
EÒ bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No
adipohydrazide	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
2-methyl-2H-isothiazol-3-one		No	No	No	No	No	No
2-Octyl-2H-isothiazol-3-one	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	
EÒ bis(benztriazolyl)	No	No	No	No	No	No	No	
phenylpropionat								
adipohydrazide	No	No	No	No	No	No	No	
2-Butoxyethanol	No	No	No	No	No	No	No	
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No	
2-methyl-2H-isothiazol-3-one	No	No	No	No	No	No	No	
2-Octyl-2H-isothiazol-3-one	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.

**Conclusion/Summary [Product]** 

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 12.7 Other adverse effects

Date of issue/Date of revision	: 01/04/2025	Date of previous issue	: 31/03/2025	Version : 3 22/28
AQUATOP VIRTA 38 - BASE T				Label No :47463

# **SECTION 12: Ecological information**

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

13.1 Waste treatment meth	lods
Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
European waste catalogue (EWC)	: 080112
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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 <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

### Substances of very high concern

Date of issue/Date of revision : 01/04 AQUATOP VIRTA 38 - BASE T

: 01/04/2025 Date of previous issue

: 31/03/2025

# **SECTION 15: Regulatory information**

None of the components are listed.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous

substances, mixtures and a	rticles		
Product/ingredient name		%	Designation [Usage]
AQUATOP VIRTA 38 2-(2-butoxyethoxy)ethanol		≥90 ≤3	3 55 [Consumer paint]
Labelling	:		
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 applicab	le.	
Ozone depleting substance	es (EU 2024/590	<u>))</u>	
Not listed.			
Prior Informed Consent (PI Not listed.	<u>C) (649/2012/EU</u>	<u>(ר</u>	
Persistent Organic Pollutar Not listed.	<u>nts</u>		
Seveso Directive			
This product is not controlled	under the Seve	so 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	: IV-1		
MAL-code	: 1-1		
Protection based on MAL			tions on work involving coded products, the following e use of personal protective equipment:
	coveralls/pro clothes do no shield must b	tective clothi ot adequately oe worn in wo	e worn for all work that may result in soiling. Apron/ ng must be worn when soiling is so great that regular work / protect skin against contact with the product. A face ork involving spattering if a full mask is not required. In this d use of eye protection is not required.
		d arm protec	in which there is return spray, respiratory protection with stors/apron/coveralls/protective clothing must be worn as ed.

# **SECTION 15: Regulatory information**

		MAL-code: 1-1 <b>Application:</b> During downtimes, cleaning and repaid booths or cabins, if there is a risk of contact with we	•	
		- Air-supplied half mask must be worn.		
		When spraying in existing* spray booths, if the opera	ator is outside the spray	/ zone.
		- Air-supplied half-mask and arm protectors must be	e worn.	
		During non-atomising spraying in existing* facilities of cabin and spray-booth type where the operator is wo		
		- Air-supplied half mask and eye protection must be	worn.	
		During all spraying where atomisation occurs in cab operator is inside the spray zone and during sprayin or booth.		
		- Air-supplied half mask, eye protection, coveralls ar	nd hood must be worn.	
		<b>Drying:</b> Items for drying/drying ovens that are temp rack trolleys, etc, must be equipped with a mechanic fumes from wet items from passing through workers	cal exhaust system to p	•
		<b>Polishing:</b> When polishing treated surfaces, a mas When machine grinding, eye protection must be wor worn.		
		Caution The regulations contain other stipulations i	n addition to the above	
		*See Regulations.		
Low-boiling liquids	:	This product contains low-boiling point liquids. Any r should be air-fed.	espiratory protective eq	luipme
Restrictions on use	:	Not to be used by professional users below 18 years Working Environment Authorities Executive Order re		
List of undesirable substances	:	Not listed	- <u></u>	
Finland				
France				
Social Security Code, Articles L 461-1 to L 461-7		2-(2-butoxyethoxy)ethanol 2-Butoxyethanol	RG 84 RG 84	
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities medical surveillance: not applicable	which require reinforce	d
Germany				
Storage class (TRGS 510)	:	10		
Hazardous incident ordina	nce			
This product is not controlled	lur	der the Germany Hazardous Incident Ordinance.		
Hazard class for water	:	1		
Technical instruction on ai	r q	uality control (TA Luft)		
Number [Class]		Description		%
5.2.1		Total dust		2.4
5.2.4 [III]		Gaseous inorganic substances		0.07
5.2.5 5.2.5 [I]		Organic substances Organic substances		35.2 1.5
ΑΟΧ	÷ 40	The product contains organically bound halogens ar	id can contribute to the	AUX

# **SECTION 15: Regulatory information**

SECTION 15. Regula	atory mornation
<u>Italy</u>	
D.Lgs. 152/06	: Not determined.
Netherlands	
Water Discharge Policy (ABM)	: A(4) Low hazard for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A
<u>Norway</u>	
<u>Sweden</u>	
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.	
UNECE Aarhus Protocol or	n POPs and Heavy Metals
Not listed.	

assessment

: Not applicable.

# **SECTION 16: Other information**

Indicates information	n that has changed from previously issued version.
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative
Dressdure used to der	ive the electricities according to Regulation (EC) No. 1272/2009 [CLP/CHS]

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

Classification	Justification	
Skin Sens. 1, H317	Calculation method	

### Full text of abbreviated H statements

H301	Toxic if swallowed.		
H302	Harmful if swallowed.		
H311	Toxic in contact with skin.		
H314	Causes severe skin burns and eye damage.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H330	Fatal if inhaled.		
H331	Toxic if inhaled.		
H400	Very toxic to aquatic life.		
Date of issue/L	Date of revision         : 01/04/2025         Date of previous issue	: 31/03/2025	Version : 3 26/28
AQUATOP	VIRTA 38 - BASE T		Label No :47463

SECTION 16: Other information			
H410 Ve	ery toxic to aquatic life with long lasting effects.		
H411 To	oxic to aquatic life with long lasting effects.		
EUH071 Co	Corrosive to the respiratory tract.		
Full text of classific	cations [CLP/GHS]		
Acute Tox. 2	ACUTE TOXICITY - Category 2		
Acute Tox. 3	ACUTE TOXICITY - Category 3		
Acute Tox. 4	ACUTE TOXICITY - Category 4		
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1		
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1		
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2		
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1		
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2		
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1		
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B		
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2		
Skin Sens. 1	SKIN SENSITISATION - Category 1		
Skin Sens. 1A	SKIN SENSITISATION - Category 1A		
Date of issue/ Date revision	of : 01/04/2025		
Date of previous is	sue : 31/03/2025		
Version	: 3		

#### 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.

Date of issue/Date of revision AQUATOP VIRTA 38 - BASE T : 01/04/2025 Date of previous issue