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

# **SAFETY DATA SHEET**



AQUAPRIMER 2900-02 - BASE T - All variants

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

## 1.1 Product identifier

Product name : AQUAPRIMER 2900-02 - BASE T - All variants

**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 Aquatic Chronic 3, H412

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	: Warning
Hazard statements	: H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: P280 - Wear protective gloves. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.
Response	<ul> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> </ul>
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

# **SECTION 2: Hazards identification**

Hazardous ingredients	1	Contains: 3-iodo-2-propynyl-butyl carbamate; 1,2-benzisothiazol-3(2H)-one and 2-methyl-2H-isothiazol-3-one
Supplemental label elements	:	Contains biocidal products for dry film and in-can preservation: IPBC and BIT and MIT and DTBMA and MBIT. Risk of skin sensitisation.Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Safety data sheet available on request.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	•	
.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 not result in classification	:	None known.

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

: Mixture	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	≤3	Eye Irrit. 2, H319	-	[1] [2]
REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	<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]
EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	<1	Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 400 mg/kg ATE [Inhalation (dusts and mists)] = 0.67 mg/l M [Acute] = 10 M [Chronic] = 1	[1]
EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.05	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	ATE [Oral] = 1020 mg/kg Skin Sens. 1, H317: C ≥ 0.05% M [Acute] = 1	[1]
EC: 220-239-6 CAS: 2682-20-4	<0.01	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 Aquatic Chronic 1,	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.11 mg/l Skin Sens. 1, H317:	[1]
	Identifiers           REACH #:           01-2119475104-44           EC: 203-961-6           CAS: 112-34-5           Index: 603-096-00-8           REACH #:           01-2119475108-36           EC: 203-905-0           CAS: 111-76-2           Index: 603-014-00-0           EC: 259-627-5           CAS: 55406-53-6           Index: 616-212-00-7           EC: 220-120-9           CAS: 2634-33-5           Index: 613-088-00-6           EC: 220-239-6	Identifiers         %           REACH #:         ≤3           01-2119475104-44         ≤3           EC: 203-961-6         CAS: 112-34-5           Index: 603-096-00-8         <1	Identifiers         %         Classification           REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8         ≤3         Eye Irrit. 2, H319           REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0         <1	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

SECTION 3: Composition/information on ingredients				
	H410 EUH071	C ≥ 0.0015% M [Acute] = 10 M [Chronic] = 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.

Contains: > 1 % TiO2

<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**

Over-exposure signs/s	Over-exposure signs/symptoms			
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 immediate medical attention and special treatment needed

Notes to physician		omatically. Contact pois ave been ingested or inf	•	alist immediately if	f larg	e
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#### SECTION 4: First aid measures **Specific treatments** : No specific treatment. SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing : Use an extinguishing agent suitable for the surrounding fire. media Unsuitable extinguishing : None known. media 5.2 Special hazards arising from the substance or mixture Hazards from the : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water substance or mixture contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. **Hazardous combustion** Decomposition products may include the following materials: 5 products carbon dioxide carbon monoxide 5.3 Advice for firefighters **Special protective actions** : 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 for fire-fighters suitable training. **Special protective** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure equipment for fire-fighters 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

# **SECTION 6: Accidental release measures**

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

chemical incidents.

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). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	соі	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill		Stop leak if without risk. Move containers from spill area. 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. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

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

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. Avoid release to the environment. 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.

## 7.3 Specific end use(s)

available.
available.

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

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
2-(2-butoxyethoxy)ethanol	Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 10 ppm 8 hours. TWA: 67.5 mg/m <sup>3</sup> 8 hours. PEAK: 15 ppm, 4 times per shift, 15 minutes. PEAK: 101.2 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
2-Butoxyethanol	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m <sup>3</sup> 8 hours. PEAK: 40 ppm, 4 times per shift, 30 minutes. PEAK: 200 mg/m <sup>3</sup> , 4 times per shift, 30 minutes.
2-methyl-2H-isothiazol-3-one	Regulation on Limit Values - MAC (Austria, 4/2021). [5-chloro- 2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-di- hydroisothiazol-3-one (mixture in the ratio 3:1)] Skin sensitiser. TWA: 0.05 mg/m <sup>3</sup> 8 hours.
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SECTION 8: Exposure	controls/	personal protection
2-(2-butoxyethoxy)ethanol		Limit values (Belgium, 5/2021). STEL: 15 ppm 15 minutes. TWA: 10 ppm 8 hours. TWA: 67.5 mg/m <sup>3</sup> 8 hours.
2-Butoxyethanol		STEL: 101.2 mg/m <sup>3</sup> 15 minutes. Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m <sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m <sup>3</sup> 15 minutes.
2-(2-butoxyethoxy)ethanol		Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 67.5 mg/m <sup>3</sup> 8 hours. Limit value 15 min: 101.2 mg/m <sup>3</sup> 15 minutes. Limit value 15 min: 15 ppm 15 minutes.
2-Butoxyethanol		Limit value 8 hours: 10 ppm 8 hours. <b>Ministry of Labour and Social Policy and the Ministry of</b> <b>Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed</b> <b>through skin.</b> Limit value 8 hours: 98 mg/m <sup>3</sup> 8 hours. Limit value 15 min: 246 mg/m <sup>3</sup> 15 minutes. Limit value 15 min: 50 ppm 15 minutes. Limit value 8 hours: 20 ppm 8 hours.
2-(2-butoxyethoxy)ethanol		Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). STELV: 101.2 mg/m <sup>3</sup> 15 minutes. STELV: 15 ppm 15 minutes. ELV: 67.5 mg/m <sup>3</sup> 8 hours. ELV: 10 ppm 8 hours.
2-Butoxyethanol		Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 246 mg/m <sup>3</sup> 15 minutes. STELV: 50 ppm 15 minutes. ELV: 98 mg/m <sup>3</sup> 8 hours. ELV: 20 ppm 8 hours.
₽-(2-butoxyethoxy)ethanol		Department of labour inspection (Cyprus, 7/2021). STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m <sup>3</sup> 15 minutes. TWA: 10 ppm 8 hours. TWA: 67.5 mg/m <sup>3</sup> 8 hours.
2-Butoxyethanol		Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 50 ppm 15 minutes. STEL: 246 mg/m <sup>3</sup> 15 minutes. TWA: 20 ppm 8 hours. TWA: 98 mg/m <sup>3</sup> 8 hours.
₽-(2-butoxyethoxy)ethanol		Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). TWA: 70 mg/m <sup>3</sup> 8 hours. TWA: 10.36 ppm 8 hours. STEL: 100 mg/m <sup>3</sup> 15 minutes. STEL: 14.8 ppm 15 minutes.
2-Butoxyethanol		Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 100 mg/m <sup>3</sup> 8 hours. TWA: 20.4 ppm 8 hours. STEL: 200 mg/m <sup>3</sup> 15 minutes. STEL: 40.8 ppm 15 minutes.
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2-(2-butoxyethoxy)ethanol	rols/personal protection Working Environment Authority (Denmark, 6/2022).
	TWA: 68 mg/m <sup>3</sup> 8 hours.
	TWA: 10 ppm 8 hours.
	STEL: 15 ppm 15 minutes.
2-Butoxyethanol	STEL: 101 mg/m <sup>3</sup> 15 minutes. Working Environment Authority (Denmark, 6/2022). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
	TWA: 98 mg/m <sup>3</sup> 8 hours.
	STEL: 246 mg/m <sup>3</sup> 15 minutes.
	STEL: 50 ppm 15 minutes.
2-(2-butoxyethoxy)ethanol	Occupational exposure limits, Regulation No. 293 (Estonia,
	12/2022).
	TWA: 10 ppm 8 hours. TWA: 67.5 mg/m <sup>3</sup> 8 hours.
2-Butoxyethanol	Occupational exposure limits, Regulation No. 293 (Estonia,
2 Datoxyounditor	12/2022). Absorbed through skin. Skin sensitiser.
	TWA: 98 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
	STEL: 246 mg/m <sup>3</sup> 15 minutes.
	STEL: 50 ppm 15 minutes.
2-(2-butoxyethoxy)ethanol	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	TWA: 67.5 mg/m <sup>3</sup> 8 hours.
	TWA: 10 ppm 8 hours. STEL: 101.2 mg/m <sup>3</sup> 15 minutes.
	STEL: 15 ppm 15 minutes.
2-Butoxyethanol	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
,	of indicative occupational exposure limit values
	TWA: 20 ppm 8 hours.
	TWA: 98 mg/m³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 246 mg/m <sup>3</sup> 15 minutes.
2-(2-butoxyethoxy)ethanol	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 10 ppm 8 hours.
2-Butoxyethanol	TWA: 68 mg/m³ 8 hours. Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 98 mg/m <sup>3</sup> 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 250 mg/m <sup>3</sup> 15 minutes.
2-(2-butoxyethoxy)ethanol	Ministry of Labor (France, 10/2022). Notes: Indicative
	regulatory limit values (decree of 30-06-2004 modified)
	STEL: 101.2 mg/m <sup>3</sup> 15 minutes.
	STEL: 15 ppm 15 minutes.
	TWA: 67.5 mg/m³ 8 hours. TWA: 10 ppm 8 hours.
2-Butoxyethanol	Ministry of Labor (France, 10/2022). Absorbed through skin.
2 Batokyothanor	Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	TWA: 10 ppm 8 hours.
	TWA: 49 mg/m <sup>3</sup> 8 hours.
	STEL: 246 mg/m <sup>3</sup> 15 minutes.
	STEL: 50 ppm 15 minutes.
2-(2-butoxyethoxy)ethanol	TRGS 900 OEL (Germany, 6/2022).
	TWA: 67 mg/m <sup>3</sup> 8 hours.
	PEAK: 100.5 mg/m <sup>3</sup> 15 minutes.
· · · · · ·	
	TWA: 10 ppm 8 hours.
	TWA: 10 ppm 8 hours. PEAK: 15 ppm 15 minutes.
	TWA: 10 ppm 8 hours. PEAK: 15 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022).
	TWA: 10 ppm 8 hours. PEAK: 15 ppm 15 minutes.

	TWA: 10 ppm 8 hours.
-Butoxyethanol	PEAK: 15 ppm, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
	TWA: 49 mg/m <sup>3</sup> 8 hours.
	PEAK: 98 mg/m <sup>3</sup> 15 minutes.
	TWA: 10 ppm 8 hours. PEAK: 20 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
	TWA: 10 ppm 8 hours.
	PEAK: 20 ppm, 4 times per shift, 15 minutes.
	TWA: 49 mg/m <sup>3</sup> 8 hours.
	PEAK: 98 mg/m³, 4 times per shift, 15 minutes.
-iodo-2-propynyl-butyl carbamate	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
	PEAK: 0.116 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
	PEAK: 0.01 ppm, 4 times per shift, 15 minutes.
	TWA: 0.058 mg/m <sup>3</sup> 8 hours.
	TWA: 0.005 ppm 8 hours.
	TRGS 900 OEL (Germany, 6/2022). Skin sensitiser.
	PEAK: 0.116 mg/m <sup>3</sup> 15 minutes.
	PEAK: 0.01 ppm 15 minutes.
	TWA: 0.058 mg/m <sup>3</sup> 8 hours.
	TWA: 0.005 ppm 8 hours.
,2-benzisothiazol-3(2H)-one	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
-methyl-2H-isothiazol-3-one	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
(2-butoxyethoxy)ethanol	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	STEL: 101.2 mg/m <sup>3</sup> 15 minutes.
	STEL: 15 ppm 15 minutes.
	TWA: 67.5 mg/m <sup>3</sup> 8 hours.
	TWA: 10 ppm 8 hours.
-Butoxyethanol	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 120 mg/m <sup>3</sup> 8 hours.
-(2-butoxyethoxy)ethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022).
	TWA: 67.5 mg/m <sup>3</sup> 8 hours.
	PEAK: 101.2 mg/m <sup>3</sup> 15 minutes.
	PEAK: 15 ppm 15 minutes.
	TWA: 10 ppm 8 hours.
-Butoxyethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
,	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 98 mg/m <sup>3</sup> 8 hours.
	PEAK: 246 mg/m <sup>3</sup> 15 minutes.
	PEAK: 50 ppm 15 minutes.
	TWA: 20 ppm 8 hours.
(2-butoxyethoxy)ethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 5/202
	STEL: 101.2 mg/m <sup>3</sup> 15 minutes.
	STEL: 15 ppm 15 minutes.
	TWA: 67.5 mg/m <sup>3</sup> 8 hours.
	TWA: 10 ppm 8 hours.
-Butoxyethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 5/202
-	Absorbed through skin.
	STEL: 246 mg/m <sup>3</sup> 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 100 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
(2-butoxyethoxy)ethanol	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
	Exposure Limit Values
	OELV-8hr: 10 ppm 8 hours.
	OELV-15min: 101.2 mg/m <sup>3</sup> 15 minutes.
	OELV-8hr: 67.5 mg/m <sup>3</sup> 8 hours.
	OELV-15min: 15 ppm 15 minutes.
-Butoxyethanol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: El

	derived Occupational Exposure Limit Values OELV-8hr: 20 ppm 8 hours. OELV-8hr: 98 mg/m <sup>3</sup> 8 hours. OELV-15min: 50 ppm 15 minutes. OELV-15min: 246 mg/m <sup>3</sup> 15 minutes.
2-(2-butoxyethoxy)ethanol	Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). 8 hours: 10 ppm 8 hours. 8 hours: 67.5 mg/m <sup>3</sup> 8 hours.
2-Butoxyethanol	<ul> <li>Short Term: 15 ppm 15 minutes.</li> <li>Short Term: 101.2 mg/m<sup>3</sup> 15 minutes.</li> <li>Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020).</li> <li>Absorbed through skin.</li> <li>8 hours: 20 ppm 8 hours.</li> <li>8 hours: 98 mg/m<sup>3</sup> 8 hours.</li> <li>Short Term: 50 ppm 15 minutes.</li> <li>Short Term: 246 mg/m<sup>3</sup> 15 minutes.</li> </ul>
2-(2-butoxyethoxy)ethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). STEL: 101.2 mg/m <sup>3</sup> 15 minutes. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes.
2-Butoxyethanol	TWA: 67.5 mg/m <sup>3</sup> 8 hours. <b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).</b> <b>Absorbed through skin.</b> TWA: 98 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m <sup>3</sup> 15 minutes.
-(2-butoxyethoxy)ethanol	<b>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).</b> TWA: 67.5 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. STEL: 101.2 mg/m <sup>3</sup> 15 minutes. STEL: 15 ppm 15 minutes.
P-Butoxyethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 50 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. STEL: 100 mg/m <sup>3</sup> 15 minutes. STEL: 20 ppm 15 minutes.
-(2-butoxyethoxy)ethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m <sup>3</sup> 15 minutes. TWA: 10 ppm 8 hours. TWA: 67.5 mg/m <sup>3</sup> 8 hours.
P-Butoxyethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m <sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m <sup>3</sup> 15 minutes.
-(2-butoxyethoxy)ethanol	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 67.5 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. STEL: 101.2 mg/m <sup>3</sup> 15 minutes. STEL: 15 ppm 15 minutes.
2-Butoxyethanol	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 98 mg/m <sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m <sup>3</sup> 15 minutes.

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<b> </b>	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 50 mg/m <sup>3</sup> 8 hours. STEL,15-min: 100 mg/m <sup>3</sup> 15 minutes. OEL, 8-h TWA: 7.4 ppm 8 hours. STEL,15-min: 14.8 ppm 15 minutes.
2-Butoxyethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 100 mg/m <sup>3</sup> 8 hours. STEL,15-min: 246 mg/m <sup>3</sup> 15 minutes. OEL, 8-h TWA: 20.4 ppm 8 hours. STEL,15-min: 50 ppm 15 minutes.
₽-(2-butoxyethoxy)ethanol	FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 10 ppm 8 hours. TWA: 68 mg/m <sup>3</sup> 8 hours.
2-Butoxyethanol	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 10 ppm 8 hours. TWA: 50 mg/m <sup>3</sup> 8 hours.
₽-(2-butoxyethoxy)ethanol	Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 67 mg/m <sup>3</sup> 8 hours. STEL: 100 mg/m <sup>3</sup> 15 minutes.
2-Butoxyethanol	Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 98 mg/m <sup>3</sup> 8 hours. STEL: 200 mg/m <sup>3</sup> 15 minutes.
2-(2-butoxyethoxy)ethanol	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor
2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours.
₽-(2-butoxyethoxy)ethanol	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 67.5 mg/m <sup>3</sup> 8 hours. Short term: 101.2 mg/m <sup>3</sup> 15 minutes. Short term: 15 ppm 15 minutes. VLA: 10 ppm 8 hours.
2-Butoxyethanol	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 98 mg/m <sup>3</sup> 8 hours. VLA: 20 ppm 8 hours. Short term: 246 mg/m <sup>3</sup> 15 minutes. Short term: 50 ppm 15 minutes.
<b> </b>	Government regulation SR c. 355/2006 (Slovakia, 9/2020). TWA: 67.5 mg/m <sup>3</sup> 8 hours. STEL: 101.2 mg/m <sup>3</sup> 15 minutes. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes.
2-Butoxyethanol	Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 98 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 246 mg/m <sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes.
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2-(2-butoxyethoxy)ethanol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).
	TWA: 67.5 mg/m <sup>3</sup> 8 hours.
	TWA: 10 ppm 8 hours. KTV: 101.2 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
2-Butoxyethanol	KTV: 15 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021).
	Absorbed through skin. TWA: 98 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
	KTV: 246 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. KTV: 50 ppm, 4 times per shift, 15 minutes.
3-iodo-2-propynyl-butyl carbamate	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021). KTV: 0.01 ppm, 4 times per shift, 15 minutes.
	TWA: 0.005 ppm 8 hours.
	KTV: 0.116 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. TWA: 0.058 mg/m <sup>3</sup> 8 hours.
2-(2-butoxyethoxy)ethanol	National institute of occupational safety and health (Spain,
	<b>4/2022).</b> TWA: 67.5 mg/m³ 8 hours.
	TWA: 10 ppm 8 hours.
	STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m³ 15 minutes.
2-Butoxyethanol	National institute of occupational safety and health (Spain,
	4/2022). Absorbed through skin. TWA: 20 ppm 8 hours.
	TWA: 98 mg/m <sup>3</sup> 8 hours. STEL: 245 mg/m <sup>3</sup> 15 minutes.
	STEL: 245 mg/m 15 minutes. STEL: 50 ppm 15 minutes.
2-(2-butoxyethoxy)ethanol	Work environment authority Regulation 2018:1 (Sweden,
	<b>9/2021).</b> TWA: 10 ppm 8 hours.
	TWA: 68 mg/m <sup>3</sup> 8 hours.
	STEL: 15 ppm 15 minutes. STEL: 101 mg/m <sup>3</sup> 15 minutes.
2-Butoxyethanol	Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin.
	TWA: 10 ppm 8 hours.
	TWA: 50 mg/m <sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes.
	STEL: 246 mg/m <sup>3</sup> 15 minutes.
2-(2-butoxyethoxy)ethanol	<b>SUVA (Switzerland, 1/2023).</b> TWA: 67 mg/m <sup>3</sup> 8 hours. Form: vapour and aerosols
	STEL: 101 mg/m <sup>3</sup> 15 minutes. Form: vapour and aerosols
	STEL: 15 ppm 15 minutes. Form: vapour and aerosols TWA: 10 ppm 8 hours. Form: vapour and aerosols
2-Butoxyethanol	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 10 ppm 8 hours. TWA: 49 mg/m³ 8 hours.
	STEL: 20 ppm 15 minutes.
3-iodo-2-propynyl-butyl carbamate	STEL: 98 mg/m <sup>3</sup> 15 minutes. SUVA (Switzerland, 1/2023). Skin sensitiser.
	STEL: 0.24 mg/m <sup>3</sup> 15 minutes. Form: vapour and aerosols
	STEL: 0.02 ppm 15 minutes. Form: vapour and aerosols TWA: 0.01 ppm 8 hours. Form: vapour and aerosols
	TWA: 0.12 mg/m <sup>3</sup> 8 hours. Form: vapour and aerosols
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2-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 10 ppm 8 hours.
	STEL: 15 ppm 15 minutes.
	TWA: 67.5 mg/m <sup>3</sup> 8 hours.
	STEL: 101.2 mg/m <sup>3</sup> 15 minutes.
2-Butoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 50 ppm 15 minutes.
	TWA: 25 ppm 8 hours.
	STEL: 246 mg/m <sup>3</sup> 15 minutes.
	TWA: 123 mg/m <sup>3</sup> 8 hours.
1-Methoxy 2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 560 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
2-aminoethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 7.6 mg/m <sup>3</sup> 15 minutes.
	STEL: 3 ppm 15 minutes.
	TWA: 1 ppm 8 hours.
	TWA: 2.5 mg/m <sup>3</sup> 8 hours.
Dipropyleneglycolmethylether	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	TWA: 308 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
Ammonia	EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia
	anhydrous]
	STEL: 25 mg/m <sup>3</sup> 15 minutes. Form: anhydrous
	STEL: 35 ppm 15 minutes. Form: anhydrous
	TWA: 25 ppm 8 hours. Form: anhydrous
	TWA: 18 mg/m <sup>3</sup> 8 hours. Form: anhydrous

## **Biological exposure indices**

Γ

Product/ingredient na	me Exposure indices
No exposure indices known.	
<b>2</b> -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.	
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Z-Butoxyethanol	<ul> <li>DFG BEI-values list (Germany, 7/2022) 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, 2/2022)</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>
Nie erwennen im die ee laar erwe	exposures: at the end of shift after several shifts.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	NAOSH (Iroland 1/2011)
2-Butoxyethanol	<b>NAOSH (Ireland, 1/2011)</b> BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end 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, 5/2021) BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [ir 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, 4/2022) VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling time: end of shift.
No exposure indices known.	
2-Butoxyethanol	<b>SUVA (Switzerland, 1/2023)</b> BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis)   urine]. Sampling time: immediately after exposure or after workin hours. In case of long-term exposure: after more than one shift.
2-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.
Recommended monitoring procedures	Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessmen of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedure for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also b

## required.

## **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
2-(2-butoxyethoxy)ethanol	DNEL	Long term Oral	6.25 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	67.5 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	101.2 mg/	Workers	Local
		Inhalation	m³		
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Oral	26.7 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	59 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation		•	
	DNEL	Short term	147 mg/m³	General	Local
		Inhalation	o 4 o 1 o 3	population	
	DNEL	Short term	246 mg/m <sup>3</sup>	Workers	Local
		Inhalation	400 / 3		
	DNEL	Short term	426 mg/m <sup>3</sup>	General	Systemic
		Inhalation	1001	population	0
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m <sup>3</sup>	147	0
3-iodo-2-propynyl-butyl carbamate	DNEL	Long term	0.023 mg/	Workers	Systemic
		Inhalation	m <sup>3</sup>	VA/ a when we	Quatantia
	DNEL	Short term	0.07 mg/m <sup>3</sup>	vvorkers	Systemic
		Inhalation	1 10	VA/ a when we	1 1
	DNEL	Short term	1.16 mg/m <sup>3</sup>	vvorkers	Local
	DNEL	Inhalation	1.16 mg/m <sup>3</sup>	Workoro	
	DINEL	Long term Inhalation	1. 10 mg/m	VVOIKEIS	Local
	DNEL	Long term Dermal	2 mg/kg	Workers	Systemic
	DNEL	Long term Derma	bw/day	VUINEIS	Systemic
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/	General	Systemic
1,2-Delizisotillazor-3(211)-one		Long term Derma	kg bw/day	population	Oysternic
	DNEL	Long term Dermal	0.966 mg/	Workers	Systemic
	DINEL	Long term Derma	kg bw/day	Workers	Cysternio
	DNEL	Long term	$1.2 \text{ mg/m}^3$	General	Systemic
	DITLE	Inhalation	1.2 mg/m	population	Cyclonnic
	DNEL	Long term	6.81 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	e.e		
2-methyl-2H-isothiazol-3-one	DNEL	Long term	0.021 mg/	General	Local
		Inhalation	m <sup>3</sup>	population	
	DNEL	Long term	0.021 mg/	Workers	Local
		Inhalation	m³ Ö		
	DNEL	Long term Oral	0.027 mg/	General	Systemic
			kg bw/day	population	-
	DNEL	Short term	0.043 mg/	General	Local
		Inhalation	m³ Ö	population	
	DNEL	Short term	0.043 mg/	Workers	Local
		1			1
		Inhalation	m³		
	DNEL	Inhalation Short term Oral	m³ 0.053 mg/	General	Systemic

## **PNECs**

No PNECs available

#### 8.2 Exposure controls

# Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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## Individual protection measures

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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. 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.
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. 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	<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
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

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	:

limit

	Ingredient name		°C	°F	Method
	water		100	212	
	2-(2-butoxyethoxy)ethanol		225 to 227.6	437 to 441.7	
F	lammability	: Not ava	ilable.		
Lower and upper explosion : Kower: (		0.8% (2-(2-butoxy	ethoxy)ethanol)		

: Zower: 0.8%	(2-(2-butoxyethoxy)ethanol)
Upper: 9.4%	(2-(2-butoxyethoxy)ethanol)

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

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Flash point		: Closed cup: >100°C (>212°F)				
Auto-ignition temperature		÷				
	Ingredient name		°C	°F	Method	
	2-(2-butoxyethoxy)ethanol		210	410	DIN 51794	

Decomposition temperature	:	Not ava	ilable.	
рН	:	<mark>8</mark> .1 to 9	[Conc. (% w/w): 10	0%]
Viscosity	1	Not ava	ilable.	
Solubility(ies)	1			
Not available.				
Solubility in water	:	Not ava	ilable.	
Partition coefficient: n-octanol/ water	:	Not app	licable.	

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## Vapour pressure

	Vapour Pressure at 20°C		Va	Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
2-(2-butoxyethoxy)ethanol	0.022	0.0029				

Relative density	: Not available.
Density	: 1 g/cm <sup>3</sup>
Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

## 9.2 Other information

No additional information.

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	Species	Dose	Exposure
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
3-iodo-2-propynyl-butyl carbamate	LC50 Inhalation Dusts and mists	Rat	0.67 g/m³	4 hours
	LC50 Inhalation Dusts and mists	Rat	0.763 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-
1,2-benzisothiazol-3(2H)- one	LD50 Oral	Rat	1020 mg/kg	-
2-methyl-2H-isothiazol- 3-one	LC50 Inhalation Dusts and mists	Rat	0.11 mg/l	4 hours
<b>Conclusion/Summary</b> : Based on available data, the classification criteria are not met.				

## Acute toxicity estimates

Route	ATE value
	371.36 mg/l 213.06 mg/l

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
3-iodo-2-propynyl-butyl carbamate	Eyes - Severe irritant	Rabbit	-	-	-
1,2-benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	48 hours 5 %	-

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

## Sensitisation

Product/ingredient name	Route of exposure	Species	Result
了iodo-2-propynyl-butyl carbamate	skin	Guinea pig	Not sensitizing

## Conclusion/Summary

: May cause an allergic skin reaction.

## **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
♂-iodo-2-propynyl-butyl carbamate	-	Experiment: In vitro Subject: Bacteria	Negative
Conclusion/Summary Carcinogenicity	: Based on available data, the classification criteria are not met.		
Conclusion/Summary <u>Reproductive toxicity</u>	: Based on available data, the classification criteria are not met.		et.

S	SECTION 11: Toxicological information						
	Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
	iodo-2-propynyl-butyl carbamate	Negative	-	Negative	Rabbit - Female	Oral: 20 mg/kg	13 days; 7 days per week
		Positive	-	Negative	Rabbit - Female	Oral: 50 mg/kg	13 days; 7 days per week

Conclusion/Summary

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

## **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
♂-iodo-2-propynyl-butyl carbamate	Negative - Oral	Rabbit - Female	50 mg/kg	-

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

## Specific target organ toxicity (single exposure)

Not available.

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
3-iodo-2-propynyl-butyl carbamate	Category 1	-	larynx

## Aspiration hazard

Not available.

## Information on likely routes : Not available.

## of exposure

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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

<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		

# **SECTION 11: Toxicological information**

<b>Conclusion/Summary</b>	: Not available.
General	<ul> <li>Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

## **11.2 Information on other hazards 11.2.1 Endocrine disrupting properties** Not available.

11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-(2-butoxyethoxy)ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
3-iodo-2-propynyl-butyl carbamate	Acute EC50 0.022 mg/l Fresh water	Algae - Scenedemus subspicatus	72 hours
	Acute EC50 0.16 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 0.067 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute NOEC 0.049 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.05 mg/l Fresh water	Daphnia - <i>Daphnia Magna</i>	21 days
1,2-benzisothiazol-3(2H)-one	Acute EC50 0.36 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
	Acute EC50 3.7 mg/l	Daphnia - <i>Daphnia Magna</i>	48 hours
	Acute LC50 1.9 mg/l Fresh water	Fish - Onorhynchus Mykiss	96 hours
	Acute NOEC 0.15 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
2-methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
-	Acute LC50 0.07 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

**Conclusion/Summary** : Harmful to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

· · · · · · · · · · · · · · · · · · ·	•				
Product/ingredient name	Test	Result		Dose	Inoculum
7,2-benzisothiazol-3(2H)-one	EU	24 % - 28 days		-	-
Conclusion/Summary	y : This product has not been tested for biodegradation.				
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
riodo-2-propynyl-butyl carbamate 1,2-benzisothiazol-3(2H)-one	-		-		Not readily Inherent

#### **12.3 Bioaccumulative potential**

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

#### **12.4 Mobility in soil**

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# **SECTION 12: Ecological information**

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

## 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
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. 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	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

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

# **SECTION 14: Transport information**

14.7 Maritime transport in bulk according to IMO instruments

in : 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

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

substances, mixtures and ar	<u>ticles</u>				
Product/ingredient name		%	Designation [Usage]		
QUAPRIMER 2900-02 - BASE T 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	d pollution				
Explosive precursors	: Not applicab	le.			
Ozone depleting substance Not listed.	<u>s (1005/2009/E</u>	<u>:U)</u>			
Prior Informed Consent (PIC Not listed.	<u>C) (649/2012/E</u>	<u>U)</u>			
Persistent Organic Pollutan Not listed.	<u>ts</u>				
Seveso Directive This product is not controlled	under the Seve	so Directiv	ve.		
<u>National regulations</u> <u>Austria</u>					
VbF class	: Not regulate	d.			
Limitation of the use of organic solvents	: Permitted.				
Czech Republic					
Storage code	: IV				
<u>Denmark</u>					
Danish fire class : IV-1					
MAL-code	: 0-1				

# SECTION 15: Regulatory information

Protection based on MAL	: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:					
	coveralls/protec clothes do not a shield must be	ctive clothing must be adequately protect sk worn in work involvin	all work that may result ir worn when soiling is so in against contact with th g spattering if a full mask re protection is not require	great that regular wor le product. A face c is not required. In thi		
		ection and arm prote	nere is return spray, the fo ctors/apron/coveralls/pro			
	MAL-code: 0-1 <b>Application:</b> V spray zone.	Vhen spraying in exis	sting* spray booths, if the	operator is outside th		
	- Arm protectors	s must be worn.				
			isting* facilities of the cor ne operator is working ins			
	- Gas filter mas	k must be worn.				
			on occurs in cabins or spr d during spraying outside			
	- Full mask with	l combined filter, cov	eralls and hood must be	worn.		
	rack trolleys, et	c, must be equipped	ns that are temporarily pl with a mechanical exhau through workers' inhalation	ist system to prevent		
			surfaces, a mask with du tion must be worn. Work			
	Caution The re	egulations contain otl	her stipulations in additio	n to the above.		
	*See Regulation					
Restrictions on use	Working Enviro		s below 18 years of age. cecutive Order regarding			
List of undesirable substances	: Not listed					
<u>Finland</u> -						
<u>France</u> Social Security Code,	· 2.(2-butoxyetho	xy)ethanol	RG 8	Δ		
Articles L 461-1 to L 461-7	: 2-(2-butoxyethoxy)ethanolRG 842-ButoxyethanolRG 84					
Reinforced medical surveillance		1977 determining the ance: not applicable	list of activities which red	quire reinforced		
<u>Germany</u> TRGS 905						
Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development		
Cobalt compounds	K2	M1A	RF1A	RD1A		

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# **SECTION 15: Regulatory information**

Storage class (TRGS 510) : 10

Hazardous incident ordinance

This product is not controlled under the Germany Hazardous Incident Ordinance.

This product is not controlle	d under the Germany Hazardous incident Ordinance.
Hazard class for water	: 3
Technical instruction on air quality control	: TA-Luft Number 5.2.5: 3.6% TA-Luft Class I - Number 5.2.5: 0.3%
ΑΟΧ	: The product contains organically bound halogens and can contribute to the AOX value in waste water.
<u>Italy</u>	
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
<u>Norway</u>	
<u>Sweden</u>	
Switzerland	
VOC content	: Exempt.
International regulations	
Chemical Weapon Convent	tion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
	Provident Operation Pally texts
	Persistent Organic Pollutants
Not listed.	
Rotterdam Convention on	Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protocol or	<u>ı POPs and Heavy Metals</u>
Not listed.	

## **SECTION 16: Other information**

15.2 Chemical safety

assessment

Indicates information that has changed from previously issued version.

required.

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>
	vPvB = Very Persistent and Very Bioaccumulative

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

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

Classification	Justification
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

## Full text of abbreviated H statements

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SECTION 16:	Other information
<b>₩</b> 301 To	xic if swallowed.
H302 Ha	armful if swallowed.
H311 To	xic in contact with skin.
H314 Ca	auses severe skin burns and eye damage.
	auses skin irritation.
	ay cause an allergic skin reaction.
	auses serious eye damage.
	auses serious eye irritation.
	tal if inhaled.
	xic if inhaled.
	auses damage to organs through prolonged or repeated exposure.
	ry toxic to aquatic life.
	ry toxic to aquatic life with long lasting effects.
	armful to aquatic life with long lasting effects.
EUH071 Co	prrosive to the respiratory tract.
Full text of classific	ations [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 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
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
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
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#### Notice to reader

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

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