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

# **SAFETY DATA SHEET**



AQUATOP 2012-02 - All variants

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

#### 1.1 Product identifier Product name

e : AQUATOP 2012-02 - 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	Varning	
Hazard statements	H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	2280 - Wear protective gloves. 2273 - Avoid release to the environment. 2261 - Avoid breathing vapour.	
Response	7302 + P352 - IF ON SKIN: Wash with plenty of water. P362 + P364 - Take off contaminated clothing and wash it before reuse	Э.
Storage	Not applicable.	
Disposal	P501 - Dispose of contents and container in accordance with all local, r national and international regulations.	egional,

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

Hazardous ingredients	:	Contains: 3-iodo-2-propynyl-butyl carbamate; adipohydrazide; 4,5-dichloro-2-octyl-2H-isothiazol-3-one and 1,2-benzisothiazol-3(2H)-one
Supplemental label elements	-	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Contains biocidal products for dry film and in-can preservation: IPBC and DCOIT and BIT and MIT and C(M)IT/MIT (3:1) and OIT. Risk of skin sensitisation.
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 not result in classification	:	None known.

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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
<mark>u</mark> fanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤3	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
3-iodo-2-propynyl-butyl carbamate	EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	≤0.2	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]
adipohydrazide	REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8	≤0.3	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
4,5-dichloro-2-octyl-2H- isothiazol-3-one	EC: 264-843-8 CAS: 64359-81-5 Index: 613-335-00-8	≤0.022	Acute Tox. 4, H302 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] = 567 mg/kg ATE [Inhalation (dusts and mists)] = 0.16 mg/l Skin Corr. 1, H314: $C \ge 5\%$ Skin Irrit. 2, H315: 0.025% $\le C < 5\%$ Eye Dam. 1, H318:	[1]

SECTION 3: Compo	sition/informat	ion on in	gredients		
				$C \ge 3\%$ Eye Irrit. 2, H319: $0.025\% \le C < 3\%$ Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 100 M [Chronic] = 100	
1,2-benzisothiazol-3(2H)- one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.036	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = $0.21$ mg/l Skin Sens. 1, H317: C $\ge 0.036\%$ M [Acute] = 1 M [Chronic] = 1	[1]
2-methyl-2H-isothiazol- 3-one	EC: 220-239-6 CAS: 2682-20-4 Index: 613-326-00-9	<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, H410 EUH071	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.11 mg/l Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 10 M [Chronic] = 1	[1]
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:1)	EC: 911-418-6 CAS: 55965-84-9 Index: 613-167-00-5	<0.001	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: C $\geq$ 0.6% Eye Dam. 1, H318: C $\geq$ 0.6% Eye Irrit. 2, H319: 0.06% $\leq$ C < 0.6% Skin Sens. 1, H317: C $\geq$ 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.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[\*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter  $\leq$  10 µm not bound within a matrix.

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

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

4.1 Description of first aid n	neas	sures
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/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 in	nmediate medical attention and special treatment needed

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture
 In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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SECTION 5: Firefighting measures			
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides		
5.3 Advice for firefighters			
Special protective actions for fire-fighters	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>		
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		

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

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	1	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	со	ntainment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. 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 spill 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. 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.
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### **SECTION 7: Handling and storage**

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

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

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

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

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

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
2-Butoxyethanol	Regulation on Limit Values - MAC (Austria, 4/2021) Absorbedthrough skin.TWA 8 hours: 20 ppm.TWA 8 hours: 98 mg/m³.PEAK 30 minutes: 40 ppm 4 times per shift.PEAK 30 minutes: 200 mg/m³ 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-di- hydroisothiazol-3-on (Gemisch im Verhältnis 3:1)] Skin sensitiser. TWA 8 hours: 0.05 mg/m <sup>3</sup> .
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Regulation on Limit Values - MAC (Austria, 4/2021) [5-Chlor- 2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-di- hydroisothiazol-3-on (Gemisch im Verhältnis 3:1)] Skin sensitiser. TWA 8 hours: 0.05 mg/m <sup>3</sup> .
∠Butoxyethanol	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> .
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.
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-Butoxyethanol	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex (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.
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> .
-Butoxyethanol	Government regulation of Czech Republic PEL/NPK-P (Czec Republic, 12/2023) Absorbed through skin. TWA 8 hours: 98 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. STEL 15 minutes: 200 mg/m <sup>3</sup> . STEL 15 minutes: 40.7 ppm.
-Butoxyethanol	Working Environment Authority (Denmark, 3/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 246 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm.
-Butoxyethanol	Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 98 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm.
-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> .
-Butoxyethanol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 250 mg/m <sup>3</sup> .
-Butoxyethanol	Ministry of Labor (France, 6/2024) Absorbed through skin. TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 49 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 246 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
-Butoxyethanol	<ul> <li>TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 49 mg/m<sup>3</sup>. PEAK 15 minutes: 98 mg/m<sup>3</sup>. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm.</li> <li>DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 49 mg/m<sup>3</sup>.</li> </ul>

### SECTION 8: Exposure controls/personal protection

3-iodo-2-propynyl-butyl carbamate	PEAK 15 minutes: 0.116 mg/m <sup>3</sup> . PEAK 15 minutes: 0.01 ppm. TWA 8 hours: 0.058 mg/m <sup>3</sup> . TWA 8 hours: 0.005 ppm. <b>DFG MAC-values list (Germany, 7/2023)</b> Develop C. Skin
	sensitiser. PEAK 15 minutes: 0.116 mg/m³ 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 0.01 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 0.058 mg/m³. TWA 8 hours: 0.005 ppm.
1,2-benzisothiazol-3(2H)-one 2-methyl-2H-isothiazol-3-one	DFG MAC-values list (Germany, 7/2023) Skin sensitiser. DFG MAC-values list (Germany, 7/2023) Skin sensitiser.
-Butoxyethanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m <sup>3</sup> .
2-Butoxyethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through skin. TWA 8 hours: 98 mg/m <sup>3</sup> . PEAK 15 minutes: 246 mg/m <sup>3</sup> . PEAK 15 minutes: 50 ppm. TWA 8 hours: 20 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-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>
₽-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-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-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.
₽-Butoxyethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) 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> .
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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-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-Butoxyethanol	FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skir TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m <sup>3</sup> .
2-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-Butoxyethanol	<b>Portuguese Institute of Quality (Portugal, 11/2014)</b> A3. TWA 8 hours: 20 ppm.
2-Butoxyethanol	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 98 mg/m <sup>3</sup> . VLA 8 hours: 20 ppm. Short term 15 minutes: 246 mg/m <sup>3</sup> . Short term 15 minutes: 50 ppm.
2-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-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
3-iodo-2-propynyl-butyl carbamate	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) KTV 15 minutes: 0.01 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes TWA 8 hours: 0.005 ppm. KTV 15 minutes: 0.116 mg/m <sup>3</sup> 4 times per shift [time between tw exposure events at this concentration must be at least 60 minutes TWA 8 hours: 0.058 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.

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2-Butoxyethanol	Work environment authority Regulation 2018:1 (Sweden, 11/2022) 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-Butoxyethanol	SUVA (Switzerland, 1/2024) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 49 mg/m <sup>3</sup> . STEL 15 minutes: 20 ppm. STEL 15 minutes: 98 mg/m <sup>3</sup> .
3-iodo-2-propynyl-butyl carbamate	<b>SUVA (Switzerland, 1/2024)</b> Sensitiser. STEL 15 minutes: 0.24 mg/m <sup>3</sup> . Form: vapour and aerosols. STEL 15 minutes: 0.02 ppm. Form: vapour and aerosols. TWA 8 hours: 0.01 ppm. Form: vapour and aerosols. TWA 8 hours: 0.12 mg/m <sup>3</sup> . Form: vapour and aerosols.
reaction mass of: 5-chloro-2-methyl-	SUVA (Switzerland, 1/2024) Sensitiser.
4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	STEL 15 minutes: 0.4 mg/m <sup>3</sup> . Form: Inhalable fraction. TWA 8 hours: 0.2 mg/m <sup>3</sup> . Form: Inhalable fraction.
✓Butoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> . TWA 8 hours: 123 mg/m <sup>3</sup> .

### **Biological exposure indices**

Product/ingredient name	Exposure indices
No exposure indices known.	
Ź-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 shif 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.	
<b>Z</b> -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	<ul> <li>DFG BEI-values list (Germany, 7/2023) Notes: danger from percutaneous absorption (see p. 211 and p. 228).</li> <li>BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts.</li> <li>TRGS 903 - BEI Values (Germany, 2/2024)</li> <li>BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of the shift after several shifts.</li> </ul>

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	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 c 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.	
∠-Butoxyethanol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.
∠-Butoxyethanol	National institute of occupational safety and health (Spain, 1/2024) VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling time: end of shift.
No exposure indices known.	
∠Butoxyethanol	<b>SUVA (Switzerland, 1/2024)</b> BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [ir urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
2-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) 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 assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
DNELs/DMELs	
Product/ingredient name	Result

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fanium dioxide	DNEL - General population - Long term - Inhalation 28 µg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Inhalation</b> 170 μg/m³ <u>Effects</u> : Local
2-Butoxyethanol	<b>DNEL - General population - Long term - Oral</b> 6.3 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Short term - Oral</b> 26.7 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 59 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 98 mg/m³ <u>Effects</u> : Systemic
	<b>DNEL - General population - Short term - Inhalation</b> 147 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - Workers - Short term - Inhalation</b> 246 mg/m³ <u>Effects</u> : Local
	DNEL - General population - Short term - Inhalation 426 mg/m <sup>3</sup> Effects: Systemic
	<b>DNEL - Workers - Short term - Inhalation</b> 1091 mg/m³ <u>Effects</u> : Systemic
-iodo-2-propynyl-butyl carbamate	<b>DNEL - Workers - Long term - Inhalation</b> 0.023 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Short term - Inhalation</b> 0.07 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Short term - Inhalation</b> 1.16 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Inhalation</b> 1.16 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Dermal</b> 2 mg/kg bw/day <u>Effects</u> : Systemic
dipohydrazide	<b>DNEL - Workers - Long term - Inhalation</b> 17.5 mg/m <sup>3</sup> <u>Effects</u> : Systemic
,2-benzisothiazol-3(2H)-one	DNEL - General population - Long term - Dermal 0.345 mg/kg bw/day

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

Effects: Systemic

**DNEL - Workers - Long term - Dermal** 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> Effects: 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

DNEL - General population - Long term - Inhalation 0.02 mg/m<sup>3</sup> Effects: Local

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

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

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

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

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

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

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

#### **PNECs**

Not available.

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8.2 Exposure controls			
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.		
Individual protection meas	<u>'es</u>		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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 stand be worn at all times when handling chemical products if a risk assessme this is necessary. Considering the parameters specified by the glove ma check during use that the gloves are still retaining their protective proper should be noted that the time to breakthrough for any glove material may different for different glove manufacturers. In the case of mixtures, cons several substances, the protection time of the gloves cannot be accurate 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 being performed and the risks involved and should be approved by a special 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 shou approved by a specialist before handling this product.		
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that mee appropriate standard or certification. Respirators must be used according to respiratory protection program to ensure proper fitting, training, and other impaspects of use.	а	
	Filter type (spray application): A P		
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legisla In some cases, fume scrubbers, filters or engineering modifications to the pre- equipment will be necessary to reduce emissions to acceptable levels.	ation.	

### **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	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	:

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Ingredient name		°C	°F	Method
water		100	212	
2-Butoxyethanol		171 to 171.5	339.8 to 340.7	IP 123-93
Flammability	: Not	available.	ľ	T
Lower and upper explosion limit		er: Not applicable. er: Not applicable.		
Flash point	: Clos	ed cup: >100°C (>	212°F)	
Auto-ignition temperature	:			
Ingredient name		°C	°F	Method
2-Butoxyethanol		230	446	DIN 51794
Decomposition temperature	: Not	available.		
ЭΗ	<b>:</b> 8.1 t	o 8.8 [Conc. (% w/	w): 100%]	
/iscosity	: Not	available.		
Solubility(ies)	:			
Not available.				
Solubility in water	: Not	available.		
Partition coefficient: n-octanol/ water	: Not	applicable.		

#### Vapour pressure

	Va	pour Press	sure at 20°C	V	apour pres	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
2-Butoxyethanol	0.75006	0.1				
Relative density	: Not	available.				
Density	: 1.2	g/cm³				
/apour density	: Not	available.				
Particle characteristics						
Median particle size	: Not	applicable.				
2 Other information						
9.2.1 Information with reg	jard to physic	al hazard c	lasses			
Explosive properties	: Not	available.				
Oxidising properties	: Not available.					
9.2.2 Other safety charact	teristics					
Not applicable.						

## SECTION 10: Stability and reactivity

2

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.

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### **SECTION 10: Stability and reactivity**

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 i	n Regulation (EC) No 1272/2008
Acute toxicity	
Product/ingredient name	Result
iodo-2-propynyl-butyl carbamate	Rat - Oral - LD50
	400 mg/kg
	Rat - Dermal - LD50
	>2000 mg/kg
	Rat - Inhalation - LC50 Dusts and mists
	0.763 mg/l [4 hours]
	Rat - Inhalation - LC50 Dusts and mists
	0.67 g/m³ [4 hours]
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Rat - Oral - LD50
	1585 mg/kg
	OECD [Acute Oral Toxicity]
	Rabbit - Dermal - LD50
	>652 mg/kg
	OECD [Acute Dermal Toxicity]
	Rat - Male, Female - Inhalation - LC50 Dusts and mists
	0.26 mg/l [4 hours]
	OECD [Acute Inhalation Toxicity]
1,2-benzisothiazol-3(2H)-one	Rat - Oral - LD50
	1020 mg/kg
2-methyl-2H-isothiazol-3-one	Rat - Inhalation - LC50 Dusts and mists
	0.11 mg/l [4 hours]
reaction mass of: 5-chloro-2-methyl-	Rat - Oral - LD50
4-isothiazolin-3-one [EC no. 247-500-7] and	53 mg/kg
2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Toxic effects: Behavioral - Somnolence (general depressed
220-200-0 (0.1)	activity) Behavioral - Ataxia Lung, Thorax, or Respiration -

#### 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 2012-02	54511.9	N/A	N/A	136.3	327.9
2-Butoxyethanol	1200	N/A	N/A	3	N/A
3-iodo-2-propynyl-butyl carbamate	400	N/A	N/A	N/A	0.67
4,5-dichloro-2-octyl-2H-isothiazol-3-one	567	N/A	N/A	N/A	0.16
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
reaction mass of: 5-chloro-2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	53	50	N/A	0.5	N/A

Respiratory depression

#### **Skin corrosion/irritation**

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SECTION 11: Toxicological informat	tion
Product/ingredient name	Result
intanium dioxide	Human - Skin - Mild irritant Duration of treatment/exposure: 72 hours
	Amount/concentration applied: 300 ug l
2-Butoxyethanol	Rabbit - Skin - Mild irritant
	Amount/concentration applied: 500 mg
1,2-benzisothiazol-3(2H)-one	Human - Skin - Mild irritant
	<u>Duration of treatment/exposure</u> : 48 hours Amount/concentration applied: 5 %
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and	Human - Skin - Severe irritant Amount/concentration applied: 0.01 %
2-methyl-2H-isothiazol-3-one [EC no.	<u>A mound concontración applied</u> . 0.01 / 0
220-239-6] (3:1)	
Conclusion/Summary [Product] : Not availabl	le.
Serious eye damage/eye irritation	
Product/ingredient name	Result
2-Butoxyethanol	Rabbit - Eyes - Moderate irritant
	<u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 100 mg
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 100 mg
	•
3-iodo-2-propynyl-butyl carbamate	Rabbit - Eyes - Severe irritant
Conclusion/Summary [Product] : Not availabl	le.
Respiratory corrosion/irritation	
Not available.	
Conclusion/Summary [Product] : Not availabl	e.
Respiratory or skin sensitization	
Product/ingredient name	Result
3-iodo-2-propynyl-butyl carbamate	Guinea pig - skin
	Result: Not sensitizing
Skin	
Conclusion/Summary [Product] : Not availabl	le.
Respiratory	
Conclusion/Summary [Product] : Not availabl	e.
······	
Germ cell mutagenicity	
Product/ingredient name	Result
3-iodo-2-propynyl-butyl carbamate	<b>In vitro - Bacteria</b> <u>Result</u> : Negative
	result. Regalive
Conclusion/Summary [Product] : Not availabl	le.
Carcinogenicity	

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### **SECTION 11: Toxicological information**

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. Not available.

Conclusion/Summary [Product] : Not available.

**Reproductive toxicity Product/ingredient name 3**-iodo-2-propynyl-butyl carbamate

Result Rabbit - Female - Oral 50 mg/kg [7 days per week] [13 days] Maternal toxicity: Positive **Developmental:** Negative

Rabbit - Female - Oral 20 mg/kg [7 days per week] [13 days] Maternal toxicity: Negative **Developmental:** Negative

Conclusion/Summary [Product] : Not available.

#### Specific target organ toxicity (single exposure) Not available.

Product/ingredient name	Result				
iodo-2-propynyl-butyl carba	ate STOT RE 1, H372 (larynx)				
Aspiration hazard					
Not available.					
Information on likely routes	<u>f exposure</u>				
Not available.					
Potential acute health effect					
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 ph	sical, 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					
Short term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects	Not available.				
Long term exposure					
Potential immediate effects	Not available.				
Potential delayed effects	: Not available.				
Potential chronic health effe	<u>ts</u>				
Not available.					
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### **SECTION 11: Toxicological information**

Conclusion/Summary [Product] : 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.

**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	<b>Result</b> <b>Acute - LC50 - Marine water</b> Fish - Mummichog - <i>Fundulus heteroclitus</i> >1000000 μg/l [96 hours] <u>Effect</u> : Mortality
	Acute - LC50 - Fresh water Crustaceans - Water flea - <i>Ceriodaphnia dubia</i> - Neonate <u>Age</u> : <24 hours 3 mg/l [48 hours] <u>Effect</u> : Mortality
2-Butoxyethanol	<b>Acute - LC50 - Marine water</b> Fish - Inland silverside - <i>Menidia beryllina</i> <u>Size</u> : 40 to 100 mm 1250000 μg/l [96 hours] <u>Effect</u> : Mortality
	<b>Acute - LC50 - Marine water</b> Crustaceans - Common shrimp, sand shrimp - <i>Crangon</i> <i>crangon</i> 800000 μg/l [48 hours] <u>Effect</u> : Mortality
3-iodo-2-propynyl-butyl carbamate	<b>Acute - LC50 - Fresh water</b> EU Fish - Trout - <i>Oncorhynchus mykiss</i> 0.067 mg/l [96 hours]
	<b>Acute - NOEC - Fresh water</b> EU Fish - Trout - <i>Oncorhynchus mykiss</i> 0.049 mg/l [96 hours]
	<b>Acute - EC50 - Fresh water</b> EU Daphnia - Daphnia - <i>Daphnia magna</i> 0.16 mg/l [48 hours]
	<b>Chronic - NOEC - Fresh water</b> EU Daphnia - Daphnia - <i>Daphnia Magna</i> 0.05 mg/l [21 days]
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SECTION 12: Ecological information				
	<b>Acute - EC50 - Fresh water</b> EU Algae - Algae - <i>Scenedemus subspicatus</i> 0.022 mg/l [72 hours]			
4,5-dichloro-2-octyl-2H-isothiazol-3-one	<b>Acute - EC50 - Fresh water</b> Algae - Green algae - <i>Pseudokirchneriella subcapitata</i> 0.003 mg/l [72 hours] <u>Effect</u> : Population			
	<b>Acute - EC50 - Fresh water</b> Daphnia - Water flea - <i>Daphnia magna</i> 0.001 mg/l [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> : 1.2 g 2.7 ppb [96 hours] <u>Effect</u> : Mortality			
	<b>Chronic - NOEC</b> US EPA Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> 0.56 ppb [97 days] <u>Effect</u> : Growth			
	<b>Chronic - NOEC - Marine water</b> OECD Algae - Diatom - <i>Nitzschia pungens</i> 19.789 μg/l [96 hours] <u>Effect</u> : Population			
1,2-benzisothiazol-3(2H)-one	<b>Acute - LC50 - Fresh water</b> OECD [Fish, Acute Toxicity Test] Fish - Trout - <i>Onorhynchus Mykiss</i> 1.9 mg/l [96 hours]			
	<b>Acute - EC50</b> OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test] Daphnia - Daphnia - <i>Daphnia Magna</i> 3.7 mg/l [48 hours]			
	<b>Acute - EC50 - Marine water</b> OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - <i>Skeletonema Costatum</i> 0.36 mg/l [72 hours]			
	<b>Acute - NOEC - Marine water</b> OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - <i>Skeletonema Costatum</i> 0.15 mg/l [72 hours]			
2-methyl-2H-isothiazol-3-one	<b>Acute - EC50 - Fresh water</b> 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			

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

Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss* <u>Weight</u>: 0.73 g 0.07 ppm [96 hours] <u>Effect</u>: Mortality

Conclusion/Summary [Product] : Not available.

#### 12.2 Persistence and degradability

Product/ingredient name

2-benzisothiazol-3(2H)-one

Result EU 24% [28 days]

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
了iodo-2-propynyl-butyl carbamate	-	-	Not readily
1,2-benzisothiazol-3(2H)-one	-	-	Inherent

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-Butoxyethanol	0.81	-	Low
3-iodo-2-propynyl-butyl	>1	-	Low
carbamate			
1,2-benzisothiazol-3(2H)-one	-	3.2	Low

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

#### Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
2-Butoxyethanol	1.83	67.3685
3-iodo-2-propynyl-butyl carbamate	1.13	13.4558
adipohydrazide	1.74	55.2165
4,5-dichloro-2-octyl-2H-isothiazol-3-one	3.41	2562.01
1,2-benzisothiazol-3(2H)-one	1.86	73.142
2-methyl-2H-isothiazol-3-one	1.74	54.9187

#### Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	Μ	Т	vPvM	vP	vM
titanium dioxide	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No
adipohydrazide	No	No	No	No	No	No	No
4,5-dichloro-2-octyl-2H- isothiazol-3-one	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
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No

**Mobility** 

: Not available.

: 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]

Date of issue/Date of revision

**Conclusion/Summary** 

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

SECTION 12. ECOlogical information							
Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
<b>W</b> anium dioxide	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No
adipohydrazide	No	No	No	No	No	No	No
4,5-dichloro-2-octyl-2H- isothiazol-3-one	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
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No

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

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
titanium dioxide	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No
adipohydrazide	No	No	No	No	No	No	No
4,5-dichloro-2-octyl-2H- isothiazol-3-one	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
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No

: The product does not meet the criteria to be considered as a PBT or vPvB.

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

### 12.6 Endocrine disrupting properties

Not available.

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

### 12.7 Other adverse effects

No known significant effects or critical hazards.

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

13.1 Waste treatment methods					
Product					
Methods of disposal :	Disposal of with the req any regiona products via	tion of waste should be a this product, solutions a uirements of environmen l local authority requirem a licensed waste dispose the sewer unless fully c tion.	nd any by-products s ntal protection and w ients. Dispose of su sal contractor. Was	should at all times comp vaste disposal legislatior irplus and non-recyclabl te should not be dispose	n and le ed of
European waste : catalogue (EWC)	080111*, 20	0127*			
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### **SECTION 13: Disposal considerations**

#### **Packaging**

Methods	of d	isnosal
methods	0. 0	isposui

: 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** : Not relevant/applicable due to nature of the product. **bulk according to IMO instruments**

### **SECTION 15: Regulatory information**

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

Product/ingredient name		%	Designation [Usage]	
AQUATOP 2012-02		≥90	3	
Labelling	:	-1		
Other EU regulations				
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed			

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SECTION 15: Regulat	: Not listed		
(integrated pollution			
prevention and control) - Water			
	: Not applicable.		
Ozone depleting substance			
Not listed.			
Prior Informed Consent (PIC Not listed.	C) (649/2012/EU)		
Persistent Organic Pollutan Not listed.	<u>ts</u>		
Seveso Directive			
This product is not controlled	under the Seveso Directive.		
lational regulations			
Austria			
Limitation of the use of organic solvents	: Permitted.		
Belgium			
Book VI carcinogenic agent	<u>s annex vi.2-1 - vi.2-3</u>		Status
Ingredient name			Listed
Czech Republic			Listed
<u>Denmark</u>	: IV : ₩-1		
Executive Order No. 1795/20		Annex   Section A	Annex   Section B
Executive Order No. 1795/20 Ingredient name		Annex I Section A	Annex I Section B
Executive Order No. 1795/20 Ingredient name Ittanium dioxide	<u>015</u>	Annex I Section A Listed	Annex I Section B
Executive Order No. 1795/20 Ingredient name		Listed	- roducts, the followir
Executive Order No. 1795/20 Ingredient name Iffanium dioxide MAL-code	215 : ∴ According to the regulations on wo	Listed rk involving coded pr sonal protective equip work that may result in yorn when soiling is so against contact with th spattering if a full mask	- roducts, the followin pment: a soiling. Apron/ great that regular wo e product. A face a is not required. In th
Executive Order No. 1795/20 Ingredient name Iffanium dioxide MAL-code	<ul> <li>215</li> <li>According to the regulations on wo stipulations apply to the use of pers</li> <li>General: Gloves must be worn for all coveralls/protective clothing must be v clothes do not adequately protect skin shield must be worn in work involving</li> </ul>	Listed rk involving coded pr sonal protective equip work that may result in yorn when soiling is so against contact with th spattering if a full mask protection is not require re is return spray, the fo	- roducts, the followin oment: a soiling. Apron/ great that regular wo e product. A face a is not required. In th ed.
Executive Order No. 1795/20 Ingredient name Itanium dioxide MAL-code	<ul> <li>215</li> <li>According to the regulations on wo stipulations apply to the use of personal coveralls/protective clothing must be v clothes do not adequately protect skin shield must be worn in work involving case, other recommended use of eye In all spraying operations in which ther respiratory protection and arm protected</li> </ul>	Listed rk involving coded pr sonal protective equip work that may result in yorn when soiling is so against contact with th spattering if a full mask protection is not require re is return spray, the for ors/apron/coveralls/pro	- roducts, the followin pment: a soiling. Apron/ great that regular wo e product. A face a is not required. In the ed. pllowing must be worn tective clothing as ed facilities, spray
Executive Order No. 1795/20 Ingredient name Itanium dioxide MAL-code	<ul> <li>215</li> <li>According to the regulations on wo stipulations apply to the use of personal coveralls/protective clothing must be worn for all coveralls/protective clothing must be worn in work involving case, other recommended use of eye</li> <li>In all spraying operations in which there respiratory protection and arm protected appropriate or as instructed.</li> <li>MAL-code: 1-1</li> <li>Application: During downtimes, clear</li> </ul>	Listed rk involving coded pr sonal protective equip work that may result in yorn when soiling is so against contact with th spattering if a full mask protection is not require re is return spray, the for ors/apron/coveralls/pro	- roducts, the followin pment: a soiling. Apron/ great that regular wo e product. A face a is not required. In the ed. pllowing must be worn tective clothing as ed facilities, spray
Executive Order No. 1795/20 Ingredient name Iffanium dioxide MAL-code	<ul> <li>215</li> <li>215</li> <li>215</li> <li>216</li> <li>217</li> <li>218</li> <li>219</li> <li>210</li> <li>210</li></ul>	Listed rk involving coded pr sonal protective equip work that may result in yorn when soiling is so against contact with th spattering if a full mask protection is not require the is return spray, the for pros/apron/coveralls/pro- protect with wet paint or	- roducts, the followin pment: a soiling. Apron/ great that regular wo e product. A face a is not required. In the ed. bllowing must be worn tective clothing as
Executive Order No. 1795/20 Ingredient name Itanium dioxide MAL-code	<ul> <li>215</li> <li>215</li> <li>215</li> <li>216</li> <li>217</li> <li>218</li> <li>219</li> <li>210</li> <li>210</li></ul>	Listed rk involving coded pr sonal protective equip work that may result in yorn when soiling is so against contact with th spattering if a full mask protection is not require the is return spray, the for bors/apron/coveralls/pro- ning and repair in close ontact with wet paint or hs, if the operator is ou	- roducts, the followin oment: a soiling. Apron/ great that regular wo e product. A face a is not required. In the ed. blowing must be worn tective clothing as ed facilities, spray organic solvents.
Executive Order No. 1795/20 Ingredient name Malianium dioxide MAL-code	<ul> <li>MAL-code: 1-1</li> <li>MAL-code: 1-1</li> <li>Application: During downtimes, clear booths or cabins, if there is a risk of co</li> <li>Gas filter mask must be worn.</li> </ul>	Listed rk involving coded pr sonal protective equip work that may result in yorn when soiling is so against contact with th spattering if a full mask protection is not require re is return spray, the for ors/apron/coveralls/pro- hing and repair in close ontact with wet paint or ms, if the operator is ou m protectors must be w	- roducts, the followin pment: a soiling. Apron/ great that regular wo e product. A face a is not required. In the ed. blowing must be worn tective clothing as ed facilities, spray organic solvents. tside the spray zone. worn.

### **SECTION 15: Regulatory information**

		cabin and spray-booth type where the	operator is working inside the spray zone.
		- Air-supplied half mask and eye protec	tion must be worn.
			occurs in cabins or spray booths where the uring spraying outside a closed facility, ca
		- Air-supplied half mask, eye protectior	, coveralls and hood must be worn.
			that are temporarily placed on such things h a mechanical exhaust system to prever ough workers' inhalation zone.
			faces, a mask with dust filter must be wo n must be worn. Work gloves must always
		Caution The regulations contain other	stipulations in addition to the above.
		*See Regulations.	
Restrictions on use			elow 18 years of age. See the National utive Order regarding Young People At W
List of undesirable substances		Not listed	
Carcinogenic waste	:	Waste containers must be labeled: Co by Danish working environment legisla	ntains a substance or substances regulate tion on cancer risks.
Finland			
France			
Social Security Code, Articles L 461-1 to L 461-7	:	2-Butoxyethanol	RG 84
Reinforced medical surveillance	:	Act of July 11, 1977 determining the lis medical surveillance: not applicable	t of activities which require reinforced
<u>Germany</u>			
Storage class (TRGS 510)	1	10	
Hazardous incident ordina	nce		
This product is not controlled	lun	der the Germany Hazardous Incident C	Ordinance.
Hazard class for water	:	3	
Technical instruction on ai	r q	ality control (TA Luft)	
Number [Class]		Description	%
5.2.1		Total dust	47.2
5.2.4 [III]		Gaseous inorganic substances	0.03
5.2.5 5.2.5 [l]		Organic substances Organic substances	3.3
AOX		•	halogens and can contribute to the AOX
Italy			
 D.Lgs. 152/06	:	Not determined.	
Netherlands			
Water Discharge Policy (ABM)	:	A(2) Toxic for aquatic organisms, may environment. Decontamination effort: A	have long-term hazardous effects in aqua
<u>Norway</u>			
Sweden			
Switzerland			
VOC content	:	Exempt.	

### **SECTION 15: Regulatory information**

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

# 15.2 Chemical safety assessment

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

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level</li> </ul>
	DNEL = Derived Nonimal Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

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

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

#### Full text of abbreviated H statements

<b>H</b> 301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
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.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

### **SECTION 16: Other information**

Cute 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
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Carc. 2	CARCINOGENICITY - 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 Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
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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