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

## **SAFETY DATA SHEET**



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SILOKSAN ANTI-CARB - All variants

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

#### 1.1 Product identifier Product name

: SILOKSAN ANTI-CARB - 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		
General	P102 - Keep out of reach of children.	
Prevention	P280 - Wear protective gloves. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.	
Response	P362 + P364 - Take off contaminated clothing and wash it before reuse.	
Storage	Not applicable.	
Disposal	P501 - Dispose of contents and container in accordance with all local, regiona national and international regulations.	ıl,

### SECTION 2: Hazards identification

Hazardous ingredients	: Contains: 4,5-dichloro-2-octyl-2H-isothiazol-3-one; 1,2-benzisothiazol-3(2H)-one and 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)
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 EGForm 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**

	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
tanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
e-(2-butoxyethoxy)ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	≤3	Eye Irrit. 2, H319	-	[1] [2]
Z)-9-Octadecen-1-ol thoxylated	EC: 500-016-2 CAS: 9004-98-2	≤0.3	Skin Irrit. 2, H315 Aquatic Acute 1, H400	M [Acute] = 1	[1]
-iodo-2-propynyl-butyl arbamate	EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	<0.1	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]
-,5-dichloro-2-octyl-2H- sothiazol-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: $C \ge 3\%$	[1]

SECTION 3: Composition/information on ingredients					
				Eye Irrit. 2, H319: 0.025% ≤ C < 3% Skin Sens. 1, H317: C ≥ 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]
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	≤0.002	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 See Section 16 for the full text of the H	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: $C \ge 0.6\%$ Eye Dam. 1, H318: $C \ge 0.6\%$ Eye Irrit. 2, H319: $0.06\% \le C < 0.6\%$ Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 100 M [Chronic] = 100	[1]

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.

### 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.

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

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 immediate medical attention and special treatment needed

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

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

5.1 Extinguishing media		
Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising fr	om	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.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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

Special protective	: Fire-fighters should wear appropriate protective equipment and self-contained
equipment for fire-fighters	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	ote	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	:	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.
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

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

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)	
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**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-(2-butoxyethoxy)ethanol reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and	Regulation on Limit Values - MAC (Austria, 4/2021)TWA 8 hours: 10 ppm.TWA 8 hours: 67.5 mg/m³.PEAK 15 minutes: 15 ppm 4 times per shift.PEAK 15 minutes: 101.2 mg/m³ 4 times per shift.Regulation on Limit Values - MAC (Austria, 4/2021) [5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-di-
2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	hydroisothiazol-3-on (Gemisch im Verhältnis 3:1)] Skin sensitiser. TWA 8 hours: 0.05 mg/m <sup>3</sup> .
2-(2-butoxyethoxy)ethanol	Limit values (Belgium, 12/2023) STEL 15 minutes: 15 ppm. TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> . STEL 15 minutes: 101.2 mg/m <sup>3</sup> .
2-(2-butoxyethoxy)ethanol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Limit value 8 hours: 67.5 mg/m <sup>3</sup> . Limit value 15 minutes: 101.2 mg/m <sup>3</sup> . Limit value 15 minutes: 15 ppm. Limit value 8 hours: 10 ppm.
2-(2-butoxyethoxy)ethanol	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) STELV 15 minutes: 101.2 mg/m <sup>3</sup> . STELV 15 minutes: 15 ppm. ELV 8 hours: 67.5 mg/m <sup>3</sup> . ELV 8 hours: 10 ppm.
2-(2-butoxyethoxy)ethanol	Department of labour inspection (Cyprus, 7/2021) STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> .
2-(2-butoxyethoxy)ethanol	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) TWA 8 hours: 67.5 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm.
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2-(2-butoxyethoxy)ethanol	Working Environment Authority (Denmark, 3/2024) TWA 8 hours: 68 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101 mg/m <sup>3</sup> .
2-(2-butoxyethoxy)ethanol	Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 10 ppm.
2-(2-butoxyethoxy)ethanol	TWA 8 hours: 67.5 mg/m <sup>3</sup> . <b>EU OEL (Europe, 1/2022)</b> TWA 8 hours: 67.5 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm.
2-(2-butoxyethoxy)ethanol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) TWA 8 hours: 10 ppm. TWA 8 hours: 68 mg/m <sup>3</sup> .
2-(2-butoxyethoxy)ethanol	Ministry of Labor (France, 6/2024) STEL 15 minutes: 101.2 mg/m <sup>3</sup> . Notes: Indicative regulatory limit values (decree of 30-06-2004 modified) STEL 15 minutes: 15 ppm. Notes: Indicative regulatory limit values (decree of 30-06-2004 modified) TWA 8 hours: 67.5 mg/m <sup>3</sup> . Notes: Indicative regulatory limit values (decree of 30-06-2004 modified) TWA 8 hours: 10 ppm. Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)
2-(2-butoxyethoxy)ethanol	<ul> <li>TRGS 900 OEL (Germany, 6/2024)</li> <li>TWA 8 hours: 67 mg/m<sup>3</sup>.</li> <li>PEAK 15 minutes: 100.5 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 10 ppm.</li> <li>PEAK 15 minutes: 15 ppm.</li> <li>DFG MAC-values list (Germany, 7/2023) Develop C.</li> <li>TWA 8 hours: 67 mg/m<sup>3</sup>.</li> <li>PEAK 15 minutes: 100.5 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour TWA 8 hours: 10 ppm.</li> <li>PEAK 15 minutes: 15 ppm 4 times per shift [Interval: 1 hour].</li> </ul>
3-iodo-2-propynyl-butyl carbamate	<ul> <li>TRGS 900 OEL (Germany, 6/2024) Skin sensitiser.</li> <li>PEAK 15 minutes: 0.116 mg/m<sup>3</sup>.</li> <li>PEAK 15 minutes: 0.01 ppm.</li> <li>TWA 8 hours: 0.058 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 0.005 ppm.</li> <li>DFG MAC-values list (Germany, 7/2023) Develop C. Skin sensitiser.</li> <li>PEAK 15 minutes: 0.116 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour PEAK 15 minutes: 0.01 ppm 4 times per shift [Interval: 1 hour].</li> <li>TWA 8 hours: 0.058 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 0.058 mg/m<sup>3</sup>.</li> </ul>
1,2-benzisothiazol-3(2H)-one	DFG MAC-values list (Germany, 7/2023) Skin sensitiser.
2-(2-butoxyethoxy)ethanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) STEL 15 minutes: 101.2 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm.
2-(2-butoxyethoxy)ethanol	<b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)</b> TWA 8 hours: 67.5 mg/m <sup>3</sup> . PEAK 15 minutes: 101.2 mg/m <sup>3</sup> . PEAK 15 minutes: 15 ppm. TWA 8 hours: 10 ppm.

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2-(2-butoxyethoxy)ethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) STEL 15 minutes: 101.2 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm.
₽-(2-butoxyethoxy)ethanol	<ul> <li>NAOSH (Ireland, 4/2024) Notes: EU derived Occupational Exposure Limit Values</li> <li>OELV 8 hours: 10 ppm.</li> <li>OELV 15 minutes: 101.2 mg/m<sup>3</sup>.</li> <li>OELV 8 hours: 67.5 mg/m<sup>3</sup>.</li> <li>OELV 15 minutes: 15 ppm.</li> </ul>
✓(2-butoxyethoxy)ethanol	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) Limit value 8 hours: 10 ppm. Limit value 8 hours: 67.5 mg/m <sup>3</sup> . Short Term 15 minutes: 15 ppm. Short Term 15 minutes: 101.2 mg/m <sup>3</sup> .
2-(2-butoxyethoxy)ethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) STEL 15 minutes: 101.2 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> .
2-(2-butoxyethoxy)ethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) TWA 8 hours: 67.5 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm.
₽-(2-butoxyethoxy)ethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> .
₽-(2-butoxyethoxy)ethanol	EU OEL (Europe, 1/2022) TWA 8 hours: 67.5 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm.
2-(2-butoxyethoxy)ethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 50 mg/m <sup>3</sup> . STEL 15 minutes: 100 mg/m <sup>3</sup> . TWA 8 hours: 7.4 ppm. STEL 15 minutes: 14.8 ppm.
2-(2-butoxyethoxy)ethanol	FOR-2011-12-06-1358 (Norway, 12/2022) TWA 8 hours: 10 ppm. TWA 8 hours: 68 mg/m³.
<b> </b>	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) TWA 8 hours: 67 mg/m <sup>3</sup> . STEL 15 minutes: 100 mg/m <sup>3</sup> .
₽-(2-butoxyethoxy)ethanol	<b>Portuguese Institute of Quality (Portugal, 11/2014)</b> TWA 8 hours: 10 ppm. Form: Inhalable fraction and vapor.
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2-(2-butoxyethoxy)ethanol	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2024) VLA 8 hours: 67.5 mg/m <sup>3</sup> . Short term 15 minutes: 101.2 mg/m <sup>3</sup> . Short term 15 minutes: 15 ppm. VLA 8 hours: 10 ppm.
2-(2-butoxyethoxy)ethanol	Government regulation SR c. 355/2006 (Slovakia, 7/2024) Inhalation sensitiser. TWA 8 hours: 67.5 mg/m <sup>3</sup> . STEL 15 minutes: 101.2 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm.
2-(2-butoxyethoxy)ethanol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) TWA 8 hours: 67.5 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. KTV 15 minutes: 101.2 mg/m <sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 15 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].
3-iodo-2-propynyl-butyl carbamate	<ul> <li>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.</li> <li>KTV 15 minutes: 0.116 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. TWA 8 hours: 0.058 mg/m<sup>3</sup>.</li> </ul>
2-(2-butoxyethoxy)ethanol	National institute of occupational safety and health (Spain, 1/2024) TWA 8 hours: 67.5 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> .
2-(2-butoxyethoxy)ethanol	Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 10 ppm. TWA 8 hours: 68 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm. STEL 15 minutes: 101 mg/m <sup>3</sup> .
2-(2-butoxyethoxy)ethanol	<b>SUVA (Switzerland, 1/2024)</b> TWA 8 hours: 67 mg/m <sup>3</sup> . Form: vapour and aerosols. STEL 15 minutes: 101 mg/m <sup>3</sup> . Form: vapour and aerosols. STEL 15 minutes: 15 ppm. Form: vapour and aerosols. TWA 8 hours: 10 ppm. Form: vapour and aerosols.
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- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	<b>SUVA (Switzerland, 1/2024)</b> Sensitiser. STEL 15 minutes: 0.4 mg/m <sup>3</sup> . Form: Inhalable fraction. TWA 8 hours: 0.2 mg/m <sup>3</sup> . Form: Inhalable fraction.
2-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m <sup>3</sup> .

#### **Biological exposure indices**

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Product/ingredient	ame Exposure indices
No exposure indices known.	
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 procedure or the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be equired.
DNELs/DMELs	
Product/ingredient name	Result

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tanium dioxide	<b>DNEL - General population - Long term - Inhalation</b> 28 µg/m <sup>3</sup> Effects: Local
	<b>DNEL - Workers - Long term - Inhalation</b> 170 μg/m³ <u>Effects</u> : Local
e-(2-butoxyethoxy)ethanol	<b>DNEL - General population - Long term - Oral</b> 6.25 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 67.5 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Short term - Inhalation</b> 101.2 mg/m <sup>3</sup> <u>Effects</u> : Local
Z)-9-Octadecen-1-ol ethoxylated	<b>DNEL - General population - Long term - Oral</b> 2.5 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 6.53 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 37 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Dermal</b> 125 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 350 mg/kg bw/day <u>Effects</u> : Systemic
3-iodo-2-propynyl-butyl carbamate	<b>DNEL - Workers - Long term - Inhalation</b> 0.023 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 0.07 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Short term - Inhalation</b> 1.16 mg/m³ <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
,2-benzisothiazol-3(2H)-one	<b>DNEL - General population - Long term - Dermal</b> 0.345 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 0.966 mg/kg bw/day

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### SECTION 8: Exposure controls/personal protection

Effects: Systemic

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

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

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

#### **PNECs**

Not available.

8.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	ures
<ul> <li>Hygiene measures</li> <li>Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working peri Appropriate techniques should be used to remove potentially contaminated cloth Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.</li> </ul>	
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	
<ul> <li>Hand protection</li> <li>Chemical-resistant, impervious gloves complying with an approved standard shou be worn at all times when handling chemical products if a risk assessment indicate this is necessary. Considering the parameters specified by the glove manufacture 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</li> </ul>	
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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)

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

	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	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>		
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other importan aspects of use.		
	Filter type (spray application): A P		
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		

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

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

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

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

	Ingredient name	°C	°F	Method
	water	100	212	
	2-(2-butoxyethoxy)ethanol	225 to 227.6	437 to 441.7	
F	lammability : No	t available.	1	

Lower and upper explosion limit	:
Flash point	: Closed cup: >100°C (>212°F)

2

#### Auto-ignition temperature

Ingredient name	°C	°F	Method
2-butoxyethoxy)ethanol	210	410	DIN 51794

Decomposition temperature	: Not available.
рН	: 8.5 to 9.2 [Conc. (% w/w): 100%]
Viscosity	: Not available.
Solubility(ies)	:
Not available.	
Solubility in water	: Not available.
Partition coefficient: n-octanol/ water	: Not applicable.
Vapour pressure	:

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	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	: 1.3	g/cm³						
apour density	: Not	available.						
Particle characteristics								
Median particle size	: Not	applicable.						
2 Other information								
9.2.1 Information with regar			classes					
Explosive properties		available.						
Oxidising properties		available.						
9.2.2 Other safety character	istics							
Not applicable.								
SECTION 10: Stabilit	y and re	eactivity	1					
0.1 Reactivity	: No spec	cific test da	ta related to react	ivity available fo	r this produ	ict or its ingredients		
0.2 Chemical stability	: The pro	oduct is stal	ole.					
0.3 Possibility of azardous reactions	: Under r	normal cond	ditions of storage a	and use, hazard	lous reactio	ns will not occur.		
0.4 Conditions to avoid	: No spec	cific data.						
0.5 Incompatible materials	: No spec	cific data.						
0.6 Hazardous lecomposition products		normal cond not be prod	ditions of storage a luced.	and use, hazard	lous decom	position products		
SECTION 11: Toxicol	logical i	nforma	tion					
1.1 Information on hazard c	lasses as d	lefined in I	Regulation (EC) N	No 1272/2008				
Acute toxicity								
Product/ingredient name (2-butoxyethoxy)ethanol			<b>Result</b> <b>Rabbit - Derm</b> 2700 mg/kg	al - LD50				
			<b>Rat - Oral - LD</b> 4500 mg/kg <u>Toxic effects</u> : E - Dyspnea Live	Behavioral - Teta		horax, or Respiratio		
3-iodo-2-propynyl-butyl carba	mate		<b>Rat - Oral - LD</b> 400 mg/kg	50				
			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/m<sup>3</sup> [4 hours]

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

•	
4,5-dichloro-2-octyl-2H-isothiazol-3-one	<b>Rat - Oral - LD50</b> 1585 mg/kg OECD [Acute Oral Toxicity]
	<b>Rabbit - Dermal - LD50</b> >652 mg/kg OECD [Acute Dermal Toxicity]
	<b>Rat - Male, Female - Inhalation - LC50 Dusts and mists</b> 0.26 mg/l [4 hours] OECD [Acute Inhalation Toxicity]
1,2-benzisothiazol-3(2H)-one	<b>Rat - Oral - LD50</b> 1020 mg/kg
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	<b>Rat - Oral - LD50</b> 53 mg/kg <u>Toxic effects</u> : Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration - Respiratory depression
Conclusion/Summary [Product] : Not availa	able.

#### 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)
<ul> <li>2-(2-butoxyethoxy)ethanol</li> <li>3-iodo-2-propynyl-butyl carbamate</li> <li>4,5-dichloro-2-octyl-2H-isothiazol-3-one</li> <li>1,2-benzisothiazol-3(2H)-one</li> </ul>	4500 400 567 450	2700 N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A 0.67 0.16 0.21
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

#### Skin corrosion/irritation

#### Product/ingredient name

titanium dioxide

(Z)-9-Octadecen-1-ol ethoxylated

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

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

#### Result

Human - Skin - Mild irritant Duration of treatment/exposure: 72 hours Amount/concentration applied: 300 ug I

Rabbit - Skin - Moderate irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

Human - Skin - Mild irritant Duration of treatment/exposure: 48 hours Amount/concentration applied: 5 %

Human - Skin - Severe irritant Amount/concentration applied: 0.01 %

Conclusion/Summary [Product] : Not available.

#### Serious eye damage/eye irritation Product/ingredient name

Result

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SECTION 11: Toxicological info	ormation
2-(2-butoxyethoxy)ethanol	Rabbit - Eyes - Moderate irritant
	<u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 20 mg
	Anouniconcentration applied. 20 mg
	Rabbit - Eyes - Severe irritant
	Amount/concentration applied: 20 mg
(Z)-9-Octadecen-1-ol ethoxylated	Rabbit - Eyes - Moderate irritant Amount/concentration applied: 100 uL
3-iodo-2-propynyl-butyl carbamate	Rabbit - Eyes - Severe irritant
Conclusion/Summary [Product] : Not	available.
Respiratory corrosion/irritation	
Not available.	
Conclusion/Summary [Product] : Not	available.
Respiratory or skin sensitization	Result
Product/ingredient name S-iodo-2-propynyl-butyl carbamate	Guinea pig - skin
	<u>Result</u> : Not sensitizing
Skin	
Conclusion/Summary [Product] : Not	available.
Descriptory	
Respiratory Conclusion/Summary [Product] : Not	available.
conclusion/Summary [Product] . Not	
Germ cell mutagenicity	
Product/ingredient name	Result
3-iodo-2-propynyl-butyl carbamate	In vitro - Bacteria
	<u>Result</u> : Negative
Conclusion/Summary [Product] : Not	available.
<u>Carcinogenicity</u>	
It has been observed that the carcinogenic h leading to significant impairment of particle c	azard of this product arises when respirable dust is inhaled in quantities
Not available.	
Conclusion/Summary [Product] : Not	available.
Reproductive toxicity	
Product/ingredient name	Result
3-iodo-2-propynyl-butyl carbamate	Rabbit - Female - Oral
	50 mg/kg [7 days per week] [13 days]
	<u>Maternal toxicity</u> : Positive <u>Developmental</u> : Negative
	<u>Developmental</u> . Negative
	Rabbit - Female - Oral
	20 mg/kg [7 days per week] [13 days] Matematika
	<u>Maternal toxicity</u> : Negative <u>Developmenta</u> l: Negative
Conclusion/Summary [Product] : Not	available.

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

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

Specific target organ toxicit	<u>y (repeated exposure)</u>
Product/ingredient name	Result
iodo-2-propynyl-butyl carba	mate STOT RE 1, H372 (larynx)
Aspiration hazard Not available.	
Information on likely routes	of exposure
Not available.	
Potential acute health effect	IS In the second s
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	ysical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following:
	irritation redness
Insection	
Ingestion	: No specific data.
	cts as well as chronic effects from short and long-term exposure
Short term exposure Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Potential chronic health effe	<u>ects</u>
Not available.	
Conclusion/Summary [Pro	oduct] : Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
11.2 Information on other ha	zards
11.2.1 Endocrine disrupting	
Not available.	
Conclusion/Summary [Pro	<b>oduct]</b> : 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)

#### 11.2.2 Other information

Not available.

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No. 1907/2006 or Regulation (EC) No 1272/2008.

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

12.1 Toxicity Product/ingredient name

#### 2-(2-butoxyethoxy)ethanol

3-iodo-2-propynyl-butyl carbamate

4,5-dichloro-2-octyl-2H-isothiazol-3-one

#### Result

#### Acute - LC50 - Marine water

Fish - Mummichog - *Fundulus heteroclitus* >100000 µg/l [96 hours] <u>Effect</u>: Mortality

#### Acute - LC50 - Fresh water

Crustaceans - Water flea - *Ceriodaphnia dubia* - Neonate <u>Age</u>: <24 hours 3 mg/l [48 hours] <u>Effect</u>: Mortality

#### Acute - LC50 - Fresh water

Fish - Bluegill - *Lepomis macrochirus* <u>Size</u>: 33 to 75 mm 1300000 µg/l [96 hours] <u>Effect</u>: Mortality

#### Acute - LC50 - Fresh water

EU Fish - Trout - *Oncorhynchus mykiss* 0.067 mg/l [96 hours]

#### Acute - NOEC - Fresh water

EU Fish - Trout - *Oncorhynchus mykiss* 0.049 mg/l [96 hours]

#### Acute - EC50 - Fresh water EU Daphnia - Daphnia - Daphnia magna 0.16 mg/l [48 hours]

#### Chronic - NOEC - Fresh water EU

Daphnia - Daphnia - *Daphnia Magna* 0.05 mg/l [21 days]

## Acute - EC50 - Fresh water

Algae - Algae - *Scenedemus subspicatus* 0.022 mg/l [72 hours]

#### Acute - EC50 - Fresh water

Algae - Green algae - *Pseudokirchneriella subcapitata* 0.003 mg/l [72 hours] Effect: Population

#### Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* 0.001 mg/l [48 hours] <u>Effect</u>: Intoxication

#### Acute - LC50 - Fresh water

US EPA Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss* <u>Weight</u>: 1.2 g 2.7 ppb [96 hours] <u>Effect</u>: Mortality

#### **Chronic - NOEC**

US EPA

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

0.56 ppb [97 days] Effect: Growth **Chronic - NOEC - Marine water** OECD Algae - Diatom - Nitzschia pungens 19.789 µg/l [96 hours] Effect: Population Acute - LC50 - Fresh water 1,2-benzisothiazol-3(2H)-one OECD [Fish, Acute Toxicity Test] Fish - Trout - Onorhynchus Mykiss 1.9 mg/l [96 hours] Acute - EC50 OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test] Daphnia - Daphnia - Daphnia Magna 3.7 mg/l [48 hours] Acute - EC50 - Marine water OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - Skeletonema Costatum 0.36 mg/l [72 hours] Acute - NOEC - Marine water OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - Skeletonema Costatum 0.15 mg/l [72 hours] 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
<mark>3</mark> -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-(2-butoxyethoxy)ethanol 3-iodo-2-propynyl-butyl	1 >1	-	Low 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
<ul> <li>2-(2-butoxyethoxy)ethanol</li> <li>3-iodo-2-propynyl-butyl carbamate</li> </ul>	1.56 1.13	36.5981 13.4558
	3.41 1.86	2562.01 73.142

#### Results of PMT and vPvM assessment

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

Product/ingredient name	PMT	Р	Μ	т	vPvM	vP	٧M
itanium dioxide	No	No	No	No	No	No	No
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
(Z)-9-Octadecen-1-ol ethoxylated	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No
4,5-dichloro-2-octyl-2H- sothiazol-3-one	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No

Conclusion/Summary

: The product does not meet the criteria to be considered as a PMT or vPvM.

#### 12.5 Results of PBT and vPvB assessment Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
titanium dioxide	No	No	No	No	No	No	No
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
(Z)-9-Octadecen-1-ol ethoxylated	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	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
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-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
(Z)-9-Octadecen-1-ol ethoxylated	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	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
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

### 12.6 Endocrine disrupting properties

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

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 meth	ods
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)	: 080111*, 200127*
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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

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

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.

#### 14.7 Maritime transport in bulk according to IMO instruments

: Not relevant/applicable due to nature of the product.

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

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

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

SILOKSAN ANTI-CARB		%	Designation [Usage]	
2-(2-butoxyethoxy)ethanol		≥90 ≤3	3 55 [Consumer paint]	
Labelling	:	•		
ther EU regulations				
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed			
ndustrial emissions (integrated pollution prevention and control) - Water	: Not listed			
Explosive precursors	: Not applica	ble.		
Ozone depleting substand	<u>ces (EU 2024/5</u>	<u>90)</u>		
Not listed.				
Prior Informed Consent (F	PIC) (649/2012/I	EU)		
Not listed.				
Not listed. <u>Seveso Directive</u> This product is not controlle ational regulations	ed under the Sev	veso Directiv	ve.	
Austria				
Limitation of the use of	: Permitted.			
organic solvents				
Belgium	nts annex VI.2	<u>-1 - VI.2-3</u>		
Belgium Book VI carcinogenic age Ingredient name	nts annex VI.2	<u>-1 - VI.2-3</u>		Status
Belgium Book VI carcinogenic age Ingredient name Sílice Noirs de charbon	ents annex VI.2-	<u>-1 - VI.2-3</u>		Status Listed Listed Listed
Belgium Book VI carcinogenic age Ingredient name Sílice Noirs de charbon Sílice	ents annex VI.2	<u>-1 - VI.2-3</u>		Listed Listed
Belgium Book VI carcinogenic age Ingredient name Sílice Noirs de charbon	ents annex VI.2-	<u>-1 - VI.2-3</u>		Listed Listed
Belgium Book VI carcinogenic age Ingredient name Silice Noirs de charbon Silice Czech Republic Storage code Denmark	: 🕅	<u>-1 - VI.2-3</u>		Listed Listed
Belgium Book VI carcinogenic age Ingredient name Silice Noirs de charbon Silice Czech Republic Storage code Denmark		<u>-1 - VI.2-3</u>		Listed Listed
Belgium Book VI carcinogenic age Ingredient name Silice Noirs de charbon Silice Czech Republic Storage code Denmark Fire class	: ₩ : ₩-1	<u>-1 - VI.2-3</u>		Listed Listed
Belgium Book VI carcinogenic age Ingredient name Sílice Noirs de charbon Silice Czech Republic Storage code Denmark Fire class Executive Order No. 1795	: ₩ : ₩-1	<u>-1 - VI.2-3</u>	Annex I Section A	Listed Listed Listed
Belgium Book VI carcinogenic age Ingredient name Silice Noirs de charbon Silice Czech Republic Storage code Denmark Fire class Executive Order No. 1795 Ingredient name	: ₩ : ₩-1	<u>-1 - VI.2-3</u>	Annex I Section A Listed	Listed Listed Listed
Belgium Book VI carcinogenic age Ingredient name Sílice Noirs de charbon Silice Czech Republic	: ₩ : ₩-1	<u>-1 - VI.2-3</u>		Listed Listed

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

Conton 15. Regula	ω	i y intormation	
Protection based on MAL	:	According to the regulations on work involving coordinations apply to the use of personal protective	
		<b>General:</b> Gloves must be worn for all work that may recoveralls/protective clothing must be worn when soiling clothes do not adequately protect skin against contact v shield must be worn in work involving spattering if a full case, other recommended use of eye protection is not	is so great that regular work with the product. A face mask is not required. In this
		In all spraying operations in which there is return spray, respiratory protection and arm protectors/apron/coveral appropriate or as instructed.	
		MAL-code: 00-3 <b>Application:</b> During downtimes, cleaning and repair in booths or cabins, if there is a risk of contact with wet pa When using scraper or knife, brush, roller, etc, for pre- cabins or booths of the existing* facility type, if the oper	aint or organic solvents. and post-treatments in
		- Coveralls must be worn.	
		When spraying in existing* spray booths, if the operator	r is outside the spray zone.
		- Arm protectors and apron must be worn.	
		During all spraying where atomisation occurs in cabins operator is inside the spray zone and during spraying o or booth.	
		- Air-supplied full mask, coveralls and hood must be wo	prn.
		<b>Drying:</b> Items for drying/drying ovens that are temporarack trolleys, etc, must be equipped with a mechanical fumes from wet items from passing through workers' in	exhaust system to prevent
		<b>Polishing:</b> When polishing treated surfaces, a mask w When machine grinding, eye protection must be worn. worn.	
		Caution The regulations contain other stipulations in a	addition to the above.
		*See Regulations.	
Restrictions on use	:	Not to be used by professional users below 18 years of Working Environment Authorities Executive Order rega	
List of undesirable substances	:	Not listed	
Carcinogenic waste	:	Waste containers must be labeled: Contains a substan by Danish working environment legislation on cancer ris	
Finland			5K3.
France			
Social Security Code, Articles L 461-1 to L 461-7	:	2-(2-butoxyethoxy)ethanol	RG 84
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities wh medical surveillance: not applicable	ich require reinforced
Germany			
Storage class (TRGS 510)	÷	10	
Hazardous incident ordina	<u>nc</u>		

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

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

Hazard class for water : 2

#### Technical instruction on air quality control (TA Luft)

Number [Class]		Description	%
5.2.1		Total dust	51
5.2.5		Organic substances	2.5
5.2.5 [l]		Organic substances	1.8
5.2.7.2		Poorly degradable, easily accumulating and highly toxic organic	0.14
		substances	
ΑΟΧ		ne product contains organically bound halogens and can contribute to lue in waste water.	the AOX
<u>Italy</u>			
D.Lgs. 152/06	: No	ot determined.	
Netherlands			
Water Discharge Policy		2) Toxic for aquatic organisms, may have long-term hazardous effect	s in aquati
(ABM)	en	vironment. Decontamination effort: A	
<u>Norway</u>			
<u>Sweden</u>			
Switzerland			
VOC content	: Ex	kempt.	
nternational regulations			
	tion Lie	st Schedules I, II & III Chemicals	
Not listed.			
Not listed.			
Iontreal Protocol			
Not listed.			
Stockholm Convention on	Persist	tent Organic Pollutants	
Not listed.			
NUL IISIEU.			
Rotterdam Convention on I	Prior Ir	nformed Consent (PIC)	
Not listed.			
INECE Aarhus Protocol or		and Hoavy Motals	
Not listed.	IFUES	and Heavy Metals	
NOT IISTED.			
.2 Chemical safety	: Th	nis product contains substances for which Chemical Safety Assessme	ents are sti
sessment	ree	quired.	
ECTION 16: Other i	infor	mation	
Indicates information that I	has cha	anged from previously issued version.	
breviations and	: AT	ΓΕ = Acute Toxicity Estimate	
ronyms		_P = Classification, Labelling and Packaging Regulation [Regulation (	EC) No.
		72/2008]	
		MEL = Derived Minimal Effect Level	
		NEL = Derived No Effect Level	
		JH statement = CLP-specific Hazard statement A = Not available	
		BT = Persistent, Bioaccumulative and Toxic	
		VEC - Dradieted No Effect Concentration	

- 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]

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SECTION 16: Other information			
Classification	Justification		
Skin Sens. 1, H317 Aquatic Chronic 3, H412	Calculation method Calculation method		
Full text of abbreviated H statements			

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal 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.
- H412 Harmful to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

#### Full text of classifications [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
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. 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
Date of issue/ Date of	: 19/03/2025
revision	
Date of previous issue	: 07/09/2022
Version	: 9
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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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