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

# **SAFETY DATA SHEET**



TEKNOCLAD 3371-22 - BASE 1

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

#### 1.1 Product identifier Product name

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**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**

SECTION 2. Hazarus	SECTION 2. Hazarus identification				
Hazardous ingredients	: Contains: 3-iodo-2-propynyl-butyl carbamate; 2,4,7,9-tetramethyl-5-decyne-4,7-diol; 4,5-dichloro-2-octyl-2H-isothiazol-3-one and 1,2-benzisothiazol-3(2H)-one				
Supplemental label elements	: ₩arning! 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 C(M)IT/MIT (3:1) and DTBMA and OIT and MBIT. 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**

3.2 Mixtures Product/ingredient name	: Mixture	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
titanium 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]
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	REACH #: 01-2119954390-39 EC: 204-809-1 CAS: 126-86-3	≤0.3	Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[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]
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				$C \ge 3\%$ 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		[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. <u>Type</u>

[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	<ul> <li>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.</li> </ul>
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		Liss on avtinguishing agant quitable for the surrounding fire
Suitable extinguishing media	•	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising f	iron	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: Not available.

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

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

<ul> <li>through skin.</li> <li>TWA 8 hours: 20 ppm.</li> <li>TWA 8 hours: 98 mg/m<sup>3</sup>.</li> <li>PEAK 30 minutes: 40 ppm 4 ti</li> <li>PEAK 30 minutes: 200 mg/m<sup>3</sup>.</li> <li>PEAK 30 minutes: 200 mg/m<sup>3</sup>.</li> <li>PEAK 30 minutes: 200 mg/m<sup>3</sup>.</li> <li>Regulation on Limit Values - I</li> <li>2-methyl-2H-isothiazol-3-one [EC no.</li> <li>220-239-6] (3:1)</li> <li>PButoxyethanol</li> <li>PBUT PBUT PBUT PBUT PBUT PBUT PBUT PBUT</li></ul>	
<ul> <li>4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</li> <li>2-Butoxyethanol</li> <li>3-Butoxyethanol</li> <li>3-But</li></ul>	
Z-Butoxyethanol       TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> .         Z-Butoxyethanol       Ministry of Labour and Social Health - Ordinance No 13/200. through skin. Limit value 8 hours: 98 mg/m <sup>3</sup> . Limit value 15 minutes: 246 mg. Limit value 15 minutes: 50 ppm.         Z-Butoxyethanol       Ordinance on the protection of hazardous chemicals at work (Croatia, 12/2023) Absorbed th STELV 15 minutes: 50 ppm. ELV 15 minutes: 50 ppm. ELV 8 hours: 98 mg/m <sup>3</sup> . ELV 8 hours: 20 ppm.         Z-Butoxyethanol       Department of labour inspect through skin. STEL 15 minutes: 50 ppm.	
<ul> <li>Health - Ordinance No 13/200. through skin. Limit value 8 hours: 98 mg/m<sup>3</sup>. Limit value 15 minutes: 246 m Limit value 15 minutes: 50 ppr Limit value 8 hours: 20 ppm.</li> <li>Ordinance on the protection of hazardous chemicals at work (Croatia, 12/2023) Absorbed th STELV 15 minutes: 246 mg/m STELV 15 minutes: 50 ppm. ELV 8 hours: 98 mg/m<sup>3</sup>. ELV 8 hours: 98 mg/m<sup>3</sup>. ELV 8 hours: 20 ppm.</li> <li>Pepartment of labour inspect through skin. STEL 15 minutes: 50 ppm.</li> </ul>	) Absorbed through skin.
<ul> <li>hazardous chemicals at work (Croatia, 12/2023) Absorbed th STELV 15 minutes: 246 mg/m STELV 15 minutes: 50 ppm. ELV 8 hours: 98 mg/m<sup>3</sup>. ELV 8 hours: 20 ppm.</li> <li>Pepartment of labour inspect through skin. STEL 15 minutes: 50 ppm.</li> </ul>	. <b>(Bulgaria, 4/2024)</b> Absorbed
through skin. STEL 15 minutes: 50 ppm.	<b>exposure limit values (Annex l</b> j ough skin.
STEL 15 minutes: 246 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> .	on (Cyprus, 7/2021) Absorbed
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#### SECTION 8: Exposure controls/personal protection 2-Butoxyethanol Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 98 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. STEL 15 minutes: 200 mg/m<sup>3</sup>. STEL 15 minutes: 40.7 ppm. 2-Butoxyethanol Working Environment Authority (Denmark, 12/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m<sup>3</sup>. STEL 15 minutes: 246 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. 2-Butoxyethanol Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 98 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. 2-Butoxyethanol EU OEL (Europe, 1/2022) 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 Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 ma/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 250 mg/m<sup>3</sup>. 2-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) 2-Butoxyethanol 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. DFG MAC-values list (Germany, 7/2024) 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>. PEAK 15 minutes: 98 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. 3-iodo-2-propynyl-butyl carbamate TRGS 900 OEL (Germany, 6/2024) Skin sensitiser. 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. DFG MAC-values list (Germany, 7/2024) Develop C. Skin sensitiser. 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]. TWA 8 hours: 0.058 mg/m<sup>3</sup>. TWA 8 hours: 0.005 ppm. DFG MAC-values list (Germany, 7/2024) Skin sensitiser. 1,2-benzisothiazol-3(2H)-one

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2-Butoxyethanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m <sup>3</sup> .
2-Butoxyethanol	<b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025)</b> 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, 11/2024 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>
2-Butoxyethanol	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024) 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.
2-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> .
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 value (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.
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# **SECTION 8: Exposure controls/personal protection**

₽-Butoxyethanol	FOR-2011-12-06-1358 (Norway, 5/2024) Absorbed through skin. TWA 8 hours: 10 ppm.
2-Butoxyethanol	TWA 8 hours: 50 mg/m <sup>3</sup> . 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, 7/2024) Absorbed through skin. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 200 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 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, 7/2024) Absorbed through skin. TWA 8 hours: 0.2 mg/m <sup>3</sup> . STEL 15 minutes: 0.4 mg/m <sup>3</sup> .
₽-Butoxyethanol	<ul> <li>Portuguese Institute of Quality (Portugal, 11/2014) A3. TWA 8 hours: 20 ppm.</li> <li>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) Absorbed through skin.</li> <li>STEL 15 minutes: 50 ppm.</li> <li>STEL 15 minutes: 246 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 20 ppm.</li> <li>TWA 8 hours: 98 mg/m<sup>3</sup>.</li> </ul>
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.
₽-Butoxyethanol	Government regulation SR c. 355/2006 (Slovakia, 6/2024) 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 two exposure events at this concentration must be at least 60 minutes]. TWA 8 hours: 0.058 mg/m <sup>3</sup> .
₽-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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# SECTION 8: Exposure controls/personal protection

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> .
<b>2</b> -Butoxyethanol	SUVA (Switzerland, 1/2025) 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, 1/2025)</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, 1/2025) 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.
Z-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**

t regulation of Czech Republic Limit Values of Exposure Tests (Czech Republic, 9/2015) mit values: 0.17 mmol/mmol creatinine, butoxyacetic /drolysis) [in urine]. Sampling time: the end of the shift the week.
<b>Exposure Tests (Czech Republic, 9/2015)</b> mit values: 0.17 mmol/mmol creatinine, butoxyacetic /drolysis) [in urine]. Sampling time: the end of the shift
<b>Exposure Tests (Czech Republic, 9/2015)</b> mit values: 0.17 mmol/mmol creatinine, butoxyacetic /drolysis) [in urine]. Sampling time: the end of the shift
<b>Exposure Tests (Czech Republic, 9/2015)</b> mit values: 0.17 mmol/mmol creatinine, butoxyacetic /drolysis) [in urine]. Sampling time: the end of the shift
<b>Exposure Tests (Czech Republic, 9/2015)</b> mit values: 0.17 mmol/mmol creatinine, butoxyacetic /drolysis) [in urine]. Sampling time: the end of the shift
<b>Exposure Tests (Czech Republic, 9/2015)</b> mit values: 0.17 mmol/mmol creatinine, butoxyacetic /drolysis) [in urine]. Sampling time: the end of the shift
mit values: 200 mg/g creatinine, butoxyacetic acid /sis) [in urine]. Sampling time: the end of the shift at e week.
<b>mit values (BLV) - Labour Code / ANSES (France,</b> <b>butoxyéthanol et son acétate]</b> ng/g Cr, 2-butoxyacetic acid [in urine]. Sampling time: regardless of the day of the week).
<b>lues list (Germany, 7/2024)</b> Notes: danger from s absorption (see p. 211 and p. 228). g/g creatinine, butoxyacetic acid (after hydrolysis) [in ling time: at the end of the shift, for long-term fter several previous shifts. <b>BEI Values (Germany, 10/2024)</b> g/g creatinine, butoxy acetic acid (after hydrolysis) [in ling time: at the end of the shift, for long-term

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	exposure after several previous shifts.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
-Butoxyethanol	<b>NAOSH BGVs (Ireland, 1/2011)</b> BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end o shift - As soon as possible after exposure ceases.
No exposure indices known.	
2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014) 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.
2-Butoxyethanol	National institute of occupational safety and health (Spain, 1/2024) VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling time: end of shift.
No exposure indices known.	
2-Butoxyethanol	<b>SUVA (Switzerland, 1/2025)</b> BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
Z-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 procedure 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

Kanium dioxide	<b>DNEL - General population - Long term - Inhalation</b> 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/m <sup>3</sup> <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/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 1091 mg/m³ <u>Effects</u> : Systemic
-iodo-2-propynyl-butyl carbamate	DNEL - Workers - Long term - Inhalation 0.023 mg/m <sup>3</sup> Effects: Systemic
	DNEL - Workers - Short term - Inhalation 0.07 mg/m <sup>3</sup> Effects: 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
,4,7,9-tetramethyl-5-decyne-4,7-diol	<b>DNEL - General population - Long term - Oral</b> 0.29 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Dermal 0.29 mg/kg bw/day

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

Effects: Systemic

**DNEL - General population - Long term - Inhalation** 0.505 mg/m<sup>3</sup> Effects: Systemic

**DNEL - Workers - Long term - Dermal** 0.812 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - Workers - Long term - Inhalation** 2.86 mg/m<sup>3</sup> Effects: Systemic

**DNEL - General population - Long term - Dermal** 0.345 mg/kg bw/day <u>Effects</u>: 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> 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> <u>Effects</u>: 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

#### 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)

#### **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 measures

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Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.		
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.		
Skin protection			
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.		
	Recommendations : Wear suitable gloves tested to EN374.		
	> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm		
	Not recommended polyvinyl alcohol (PVA) gloves		
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>		
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.		
	Filter type (spray application): A P		
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		

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

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

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

Appearance	
Physical state	: Liquid.
Colour	: White.
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	:
Ingradiant name	°C

	Ingredient name	°C	°F	Method
	water	100	212	
	2-Butoxyethanol	171 to 171.5	339.8 to 340.7	IP 123-93
Flammability : Not avail		ilable.		

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Lower and upper explosion	: Lower: Not applicable.
limit	Upper: Not applicable.

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

Fla	sh	po	int

: Closed cup: >100°C (>212°F)

Ingredient name			°C	°F	Ν	Nethod	
<mark>₽</mark> ∕Butoxyethanol			230	446	C	DIN 51794	
Decomposition temperature	:	Not ava	ilable.		I		
рН	:	8.2 to 8	.9 [Conc. (%	% w/w): 100%]			
Viscosity	:	Not ava	ilable.				
Solubility(ies)	:						
Not available.							
Solubility in water	:	Not ava	ilable.				
Partition coefficient: n-octanol/ water	:	Not app	licable.				
Vapour pressure	:						

#### Vapour pressure

	Vap	Vapour Pressure at 20°C			Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
water	17.5	2.3						
2-Butoxyethanol	0.75006	0.1						

Relative density	: Not available.
Density	: 1.2 g/cm <sup>3</sup>
Vapour density	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

#### 9.2 Other information

9.2.1 Information with regar	d to physical hazard classes
Explosive properties	: Not available.
Oxidising properties	: Not available.
9.2.2 Other safety character	istics

Not applicable.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	No specific data.
10.5 Incompatible materials	:	No specific data.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

#### Product/ingredient name

**3**-iodo-2-propynyl-butyl carbamate

#### Result

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/m<sup>3</sup> [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

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)

#### Rat - Oral - LD50

53 mg/kg <u>Toxic effects</u>: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration -Respiratory depression

Conclusion/Summary [Product] : Not available.

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
FEKNOCLAD 3371-22	118870.7	N/A	N/A	297.2	335.7
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
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

#### Result

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

2-Butoxyethanol

Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

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	Dablet Olive Mild instant
2,4,7,9-tetramethyl-5-decyne-4,7-diol	Rabbit - Skin - Mild irritant Amount/concentration applied: 0.5 gm
	Amount concentration applied. 0.9 gm
1,2-benzisothiazol-3(2H)-one	Human - Skin - Mild irritant
	Duration of treatment/exposure: 48 hours
	Amount/concentration applied: 5 %
reaction mass of: 5-chloro-2-methyl-	Human - Skin - Severe irritant
4-isothiazolin-3-one [EC no. 247-500-7] and	Amount/concentration applied: 0.01 %
2-methyl-2H-isothiazol-3-one [EC no.	
220-239-6] (3:1)	
Conclusion/Summary [Product] : No	t available.
Serious eye damage/eye irritation	
Product/ingredient name	Result
2-Butoxyethanol	Rabbit - Eyes - Moderate irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 100 mg
	Rabbit - Eyes - Severe irritant
	Amount/concentration applied: 100 mg
3-iodo-2-propynyl-butyl carbamate	Rabbit - Eyes - Severe irritant
2,4,7,9-tetramethyl-5-decyne-4,7-diol	Rabbit - Eyes - Severe irritant
	Amount/concentration applied: 0.1 Ml
Conclusion/Summary [Product] : Not	available.
Respiratory corrosion/irritation	
Not available.	
Conclusion/Summary [Product] : Not	t available.
Respiratory or skin sensitization	
Product/ingredient name	Result
3-iodo-2-propynyl-butyl carbamate	Guinea pig - skin
	<u>Result</u> : Not sensitizing
Skin	
Conclusion/Summary [Product] : Not	t available.
Respiratory	
Conclusion/Summary [Product] : Not	available
Germ cell mutagenicity	
Product/ingredient name	Result
<b>3</b> -iodo-2-propynyl-butyl carbamate	In vitro - Bacteria
	Result: Negative
Conclusion/Summary [Product] : Not	t available.
Carcinogenicity	

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.

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# **SECTION 11: Toxicological information**

#### 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.

Specific target organ toxicity (repeated exposure)	
Product/ingredient name	Result
3-iodo-2-propynyl-butyl carbamate	STOT RE 1, H372 (larynx)

#### **Aspiration hazard**

Not available.

Not available.	
Potential acute health effect	t <u>s</u>
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
Ingestion	: No specific data.
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<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.
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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 has a structure of the structur				
Conclusion/Summary [P	<ul> <li>roduct] : 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.</li> </ul>			
11.2.2 Other information				
Not available.				
SECTION 12: Ecolog	gical information			
12.1 Toxicity				
Product/ingredient name	<mark>Result</mark> Acute - LC50 - Marine water Fish - Mummichog - <i>Fundulus heteroclitus</i> >1000000 μg/l [96 hours] <u>Effect</u> : Mortality			
	<b>Acute - LC50 - Fresh water</b> Crustaceans - Water flea - <i>Ceriodaphnia dubia</i> - Neonate <u>Age</u> : <24 hours 3 mg/l [48 hours] <u>Effect</u> : Mortality			

Size: 40 to 100 mm 1250000 µg/l [96 hours] Effect: Mortality

Fish - Inland silverside - Menidia beryllina

Acute - LC50 - Marine water

Acute - LC50 - Marine water Crustaceans - Common shrimp, sand shrimp - Crangon crangon 800000 µg/l [48 hours] Effect: Mortality

Acute - LC50 - Fresh water EU Fish - Trout - Oncorhynchus mykiss 0.067 mg/l [96 hours]

Acute - NOEC - Fresh water ΕU 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** ΕU

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

Acute - EC50 - Fresh water EU

Algae - Algae - Scenedemus subspicatus

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3-iodo-2-propynyl-butyl carbamate

2-Butoxyethanol

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SECTION 12: Ecological information	
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	0.022 mg/l [72 hours]
2,4,7,9-tetramethyl-5-decyne-4,7-diol	<b>LC50</b> Fish - <i>Cyprinus carpio</i> 42 mg/l [96 hours]
	<b>EC50</b> Daphnia - <i>Daphnia magna</i> 91 mg/l [48 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
	Acute - LC50 - Fresh water 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]
Conclusion/Summary [Product] : Not availab	le.
12.2 Persistence and degradability Product/ingredient name	Result

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# **SECTION 12: Ecological information**

2-benzisothiazol-3(2H)-one

EU 24% [28 days]

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
riodo-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	1.8	67.3685
3-iodo-2-propynyl-butyl carbamate	1.1	13.4558
2,4,7,9-tetramethyl-5-decyne-4,7-diol	1.9	83.8929
4,5-dichloro-2-octyl-2H-isothiazol-3-one	3.4	2562.01
1,2-benzisothiazol-3(2H)-one	1.9	73.142

#### 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
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	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

Mobility Conclusion/Summary : 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]

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB	
titanium dioxide	No	No	No	No	No	No	No	
2-Butoxyethanol	No	N/A	N/A	No	N/A	N/A	N/A	
3-iodo-2-propynyl-butyl carbamate	N/A	N/A	N/A	Yes	N/A	N/A	N/A	
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	No	N/A	N/A	No	N/A	N/A	N/A	
4,5-dichloro-2-octyl-2H- isothiazol-3-one	N/A	N/A	N/A	Yes	N/A	N/A	N/A	
1,2-benzisothiazol-3(2H)-one	e No	N/A	No	No	No	N/A	No	
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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)	No	N/A	N/A	No	N/A	N/A	N/A	

#### 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
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	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

Not available.

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Conclusion/Summary [Product]
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The product does not meet the criteria to be considered as having endocrine 1 disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

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

#### 13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	: 080112, 200128
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
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### SECTION 14. Transport information

SECTION 14. Transport information						
	ADR/RID	ADN	IMDG	IATA		
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.		
14.2 UN proper shipping name	-	-	-	-		
14.3 Transport hazard class(es)	-	-	-	-		
14.4 Packing group	-	-	-	-		
14.5 Environmental hazards	No.	No.	No.	No.		

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

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

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

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

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

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

Product/ingredient name		%	Designati	on [Usage]			
TEKNOCLAD 3371-22		≥90	3				
Labelling	:	-					
Other EU regulations							
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed						
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed						
Explosive precursors	: Not applicat	ole.					
Ozone depleting substance Not listed.	es (EU 2024/59)	<u>0)</u>					
Prior Informed Consent (P Not listed.	'IC) (649/2012/E	<u>U)</u>					
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# **SECTION 15: Regulatory information**

Persistent	Organic	<b>Pollutants</b>
Not listed.		

# Seveso Directive

This product is not controlled	under the Seveso E	Directive.		
National regulations				
<u>Austria</u>				
Limitation of the use of organic solvents	: Permitted.			
<u>Belgium</u>				
Czech Republic				
Storage code	: IV			
<u>Denmark</u>				
Fire class	: 📈-1			
Executive Order No. 1795/2	<u>:015</u>			
Ingredient name			Annex I Section A	Annex I Section B
Manium dioxide			Listed	-
MAL-code	: 0-1			
Protection based on MAL		e regulations on wo	ork involving coded n	roducts, the following
	stipulations app	bly to the use of per	sonal protective equi	pment:
	coveralls/protect clothes do not ac shield must be w	ive clothing must be lequately protect skir orn in work involving	n against contact with th	great that regular work he product. A face k is not required. In this
	In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.			
	MAL-code: 0-1 <b>Application:</b> W spray zone.	hen spraying in exist	ing* spray booths, if the	e operator is outside the
	- Arm protectors	must be worn.		
	During non-atomising spraying in existing* facilities of the combined-cabin, spray- cabin and spray-booth type where the operator is working inside the spray zone.			
	- Gas filter mask	must be worn.		
	During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.			
	- Full mask with combined filter, coveralls and hood must be worn.			
	rack trolleys, etc	must be equipped w	s that are temporarily p /ith a mechanical exhau nrough workers' inhalati	
			urfaces, a mask with du on must be worn. Work	ust filter must be worn. gloves must always be
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# **SECTION 15: Regulatory information**

	(	Caution The regulations contain other stipulations in addition to the abo	ove.
	*	*Soo Pogulations	
Restrictions on use		'See Regulations.	tional
	۱	: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.	
List of undesirable substances	: 1	: Not listed	
Carcinogenic waste		: Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.	
<b>Finland</b>			
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 list of activities which require reinforced medical surveillance: not applicable	
<u>Germany</u>			
Storage class (TRGS 510)	: 1	10	
Hazardous incident ordina	<u>nce</u>		
This product is not controlled	d und	der the Germany Hazardous Incident Ordinance.	
Hazard class for water	: 3	3	
Technical instruction on ai	ir qu	ality control (TA Luft)	
Number [Class]		Description	%
<b>5</b> .2.1		Total dust	46.2
5.2.5		Organic substances	3.6
5.2.5 [I] AOX		Organic substances The product contains organically bound halogens and can contribute to	1.5
<u>ltaly</u> D.Lgs. 152/06		value in waste water. Not determined.	
<u>Netherlands</u> Water Discharge Policy (ABM)		A(2) Toxic for aquatic organisms, may have long-term hazardous effects environment. Decontamination effort: A	s in aquatic
Water Discharge Policy			s in aquatic
Water Discharge Policy (ABM)			s in aquatic
Water Discharge Policy (ABM) <u>Norway</u>			s in aquatic
Water Discharge Policy (ABM) <u>Norway</u> <u>Sweden</u>	e		s in aquatic
Water Discharge Policy (ABM) <u>Norway</u> <u>Sweden</u> <u>Switzerland</u> VOC content	e	environment. Decontamination effort: A	s in aquatic
Water Discharge Policy (ABM) <u>Norway</u> <u>Sweden</u> <u>Switzerland</u> VOC content <u>International regulations</u>	e : E	environment. Decontamination effort: A	s in aquatic
Water Discharge Policy (ABM) <u>Norway</u> <u>Sweden</u> <u>Switzerland</u> VOC content <u>International regulations</u> <u>Chemical Weapon Conventi</u> Not listed. <u>Montreal Protocol</u>	e : E	Exempt.	s in aquatic
Water Discharge Policy (ABM) <u>Norway</u> <u>Sweden</u> <u>Switzerland</u> VOC content <u>International regulations</u> <u>Chemical Weapon Conventi</u> Not listed. <u>Montreal Protocol</u> Not listed.	e : E	Exempt. List Schedules I, II & III Chemicals	s in aquatic
Water Discharge Policy (ABM) <u>Norway</u> <u>Sweden</u> <u>Switzerland</u> VOC content <u>International regulations</u> <u>Chemical Weapon Conventi</u> Not listed. <u>Montreal Protocol</u>	e : E	Exempt. List Schedules I, II & III Chemicals	s in aquatic
Water Discharge Policy (ABM) <u>Norway</u> <u>Sweden</u> <u>Switzerland</u> VOC content <u>International regulations</u> <u>Chemical Weapon Conventi</u> Not listed. <u>Montreal Protocol</u> Not listed. <u>Stockholm Convention on P</u>	e : E on L Persi	Exempt. List Schedules I, II & III Chemicals	s in aquatic
Water Discharge Policy (ABM) <u>Norway</u> <u>Sweden</u> <u>Switzerland</u> VOC content <u>International regulations</u> <u>Chemical Weapon Conventi</u> Not listed. <u>Montreal Protocol</u> Not listed. <u>Stockholm Convention on P</u> Not listed. <u>Rotterdam Convention on P</u>	e : E <u>ion L</u> Persi	Exempt. List Schedules I, II & III Chemicals istent Organic Pollutants Informed Consent (PIC)	s in aquatic

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

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

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

Classification	Justification
	Calculation method Calculation method

#### Full text of abbreviated H statements

I UII LEAL UI	abbieviated it 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
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
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revision	

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#### Notice to reader

# **SECTION 16: Other information**

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

Date of issue/Date of revision TEKNOCLAD 3371-22 - BASE 1 : 10/07/2025 Date of previous issue