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

# SAFETY DATA SHEET



ETERNO FASSADENGRAU 3329-30 - All variants

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

# **1.1 Product identifier**

: ETERNO FASSADENGRAU 3329-30 - All variants **Product name** 

1.2 Relevant identified uses of the substance or mixture and uses advised against **Product 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	1317 - May cause an allergic skin reaction. 1412 - 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	302 + P352 - IF ON SKIN: Wash with plenty of water. 362 + P364 - Take off contaminated clothing and wash it before reuse	Э.
Storage	lot applicable.	
Disposal	P501 - Dispose of contents and container in accordance with all local, r national and international regulations.	egional,

# **SECTION 2: Hazards identification**

Hazardous ingredients	<ul> <li>Contains: EO bis(benztriazolyl)phenylpropionat; Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate; 2,4,7,9-tetramethyl-5-decyne-4,7-diol and 1,2-benzisothiazol-3 (2H)-one</li> </ul>
Supplemental label elements	<ul> <li>Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.</li> </ul>
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.	: ₱his mixture does not contain any substances that are assessed to be a PBT or a vPvB.

1907/2006, Annex XIII Other hazards which do : None known. not result in classification

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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
<mark>u</mark> tanium 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]
EO bis(benztriazolyl) phenylpropionat	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	<1	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
Reaction mass of Bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤1	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
ammonia, anhydrous	EC: 231-635-3 CAS: 7664-41-7 Index: 007-001-00-5	≤0.3	Flam. Gas 2, H221 Press. Gas (Comp.), H280 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400	ATE [Inhalation (gases)] = 2000 ppm M [Acute] = 1	[1] [2]
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]

SECTION 3. Compo	osition/informati		igrealents		
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]
pyrithione zinc	REACH #: 01-2119511196-46 EC: 236-671-3 CAS: 13463-41-7 Index: 613-333-00-7	≤0.0015	Acute Tox. 3, H301 Acute Tox. 2, H330 Eye Dam. 1, H318 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 221 mg/kg ATE [Inhalation (dusts and mists)] = 0.14 mg/l M [Acute] = 1000 M [Chronic] = 10	[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

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	4.1	Description	of first aid	measures
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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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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.

	l measures			
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 sympton	ns and effects, both acute and delayed			
Over-exposure signs/symp	<u>toms</u>			
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 immedi	ate medical attention and special treatment needed			
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>			
Specific treatments	: No specific treatment.			
SECTION 5: Firefigh	ting 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 f	rom 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 nitrogen oxides metal oxide/oxides			
5.3 Advice for firefighters				
Special protective actions for fire-fighters	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident in there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>			
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			

# **SECTION 6: Accidental release measures**

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

Date of issue/Date of revision	: 12/06/2025	Date of previous issue	: 03/01/2024	Version	:1.01	4/31
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### **SECTION 6: Accidental release measures**

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 containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a 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

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

#### 7.3 Specific end use(s) Recommendations

: Not available.

- Industrial sector specific solutions
- : Not available.

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
<b>2</b> -Butoxyethanol	Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> . PEAK 30 minutes: 40 ppm 4 times per shift. PEAK 30 minutes: 200 mg/m <sup>3</sup> 4 times per shift.
ammonia, anhydrous	Regulation on Limit Values - MAC (Austria, 4/2021) [Ammoniak TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m <sup>3</sup> . PEAK 15 minutes: 50 ppm 4 times per shift. PEAK 15 minutes: 36 mg/m <sup>3</sup> 4 times per shift.
∠Butoxyethanol	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> .
ammonia, anhydrous	Limit values (Belgium, 12/2023) [Ammoniak] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m <sup>3</sup> .
<b>2</b> -Butoxyethanol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin. Limit value 8 hours: 98 mg/m <sup>3</sup> . Limit value 15 minutes: 246 mg/m <sup>3</sup> . Limit value 15 minutes: 50 ppm. Limit value 8 hours: 20 ppm.
ammonia, anhydrous	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Ammonia] Limit value 8 hours: 14 mg/m <sup>3</sup> . Limit value 15 minutes: 36 mg/m <sup>3</sup> . Limit value 15 minutes: 50 ppm. Limit value 8 hours: 20 ppm.
<b>Z</b> -Butoxyethanol	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) Absorbed through skin. STELV 15 minutes: 246 mg/m <sup>3</sup> . STELV 15 minutes: 50 ppm. ELV 8 hours: 98 mg/m <sup>3</sup> . ELV 8 hours: 20 ppm.
ammonia, anhydrous	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) [amonijak, bezvodni] STELV 15 minutes: 36 mg/m <sup>3</sup> . STELV 15 minutes: 50 ppm. ELV 8 hours: 14 mg/m <sup>3</sup> . ELV 8 hours: 20 ppm.
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#### SECTION 8: Exposure controls/personal protection 2-Butoxyethanol Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m<sup>3</sup>. ammonia, anhydrous Department of labour inspection (Cyprus, 7/2021) STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m<sup>3</sup>. 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. ammonia, anhydrous Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [amoniak bezvodý] TWA 8 hours: 14 mg/m<sup>3</sup>. STEL 15 minutes: 36 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. STEL 15 minutes: 50 ppm. 2-Butoxyethanol Working Environment Authority (Denmark, 3/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m<sup>3</sup>. STEL 15 minutes: 246 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. ammonia, anhydrous Working Environment Authority (Denmark, 3/2024) [ammoniak] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m<sup>3</sup>. STEL 15 minutes: 36 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. Occupational exposure limits, Regulation No. 293 (Estonia, ammonia, anhydrous 4/2024) [ammoniaak] TWA 8 hours: 14 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. STEL 15 minutes: 36 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>. ammonia, anhydrous EU OEL (Europe, 1/2022) [ammonia, anhydrous] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m<sup>3</sup>. Date of issue/Date of revision ·03/01/2024 Version : 1.01 7/31 : 12/06/2025 Date of previous issue

# SECTION 8<sup>1</sup> Exposure controls/personal protection

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 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 250 mg/m <sup>3</sup> .
ammonia, anhydrous	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 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)
ammonia, anhydrous	Ministry of Labor (France, 6/2024) [ammoniac anhydre] TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 7 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 20 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 14 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
₽-Butoxyethanol	<ul> <li>TRGS 900 OEL (Germany, 6/2024) Absorbed through skin.</li> <li>TWA 8 hours: 49 mg/m<sup>3</sup>.</li> <li>PEAK 15 minutes: 98 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 10 ppm.</li> <li>PEAK 15 minutes: 20 ppm.</li> <li>DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin.</li> <li>TWA 8 hours: 10 ppm.</li> <li>PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour].</li> <li>TWA 8 hours: 49 mg/m<sup>3</sup>.</li> <li>PEAK 15 minutes: 98 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</li> </ul>
ammonia, anhydrous	<ul> <li>TRGS 900 OEL (Germany, 6/2024) [Ammoniak]</li> <li>TWA 8 hours: 14 mg/m<sup>3</sup>.</li> <li>TWA 8 hours: 20 ppm.</li> <li>PEAK 15 minutes: 28 mg/m<sup>3</sup>.</li> <li>PEAK 15 minutes: 40 ppm.</li> <li>DFG MAC-values list (Germany, 7/2023) [Ammonia] Develop C.</li> <li>TWA 8 hours: 20 ppm.</li> <li>PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour].</li> <li>TWA 8 hours: 14 mg/m<sup>3</sup>.</li> <li>PEAK 15 minutes: 28 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</li> </ul>
1,2-benzisothiazol-3(2H)-one pyrithione zinc	DFG MAC-values list (Germany, 7/2023) Skin sensitiser. DFG MAC-values list (Germany, 7/2023) Absorbed through skin.
2-Butoxyethanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin.TWA 8 hours: 25 ppm.TWA 8 hours: 120 mg/m³.Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) [αμμωνία]TWA 8 hours: 50 ppm.
	TWA 8 hours: 35 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm.
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	STEL 15 minutes: 35 mg/m <sup>3</sup> .
2-Butoxyethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through skin.
	TWA 8 hours: 98 mg/m³. PEAK 15 minutes: 246 mg/m³. PEAK 15 minutes: 50 ppm.
	TWA 8 hours: 20 ppm.
ammonia, anhydrous	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [ammónia] TWA 8 hours: 14 mg/m <sup>3</sup> . PEAK 15 minutes: 36 mg/m <sup>3</sup> . PEAK 15 minutes: 50 ppm. TWA 8 hours: 20 ppm.
2-Butoxyethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023 Absorbed through skin. STEL 15 minutes: 246 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. TWA 8 hours: 100 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm.
ammonia, anhydrous	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023 [Ammóníak] Absorbed through skin. STEL 5 minutes: 36 mg/m <sup>3</sup> . STEL 5 minutes: 50 ppm. TWA 8 hours: 14 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>
ammonia, anhydrous	<ul> <li>NAOSH (Ireland, 4/2024) [ammonia, anhydrous] Notes: EU derived Occupational Exposure Limit Values</li> <li>OELV 8 hours: 20 ppm.</li> <li>OELV 8 hours: 14 mg/m<sup>3</sup>.</li> <li>OELV 15 minutes: 50 ppm.</li> <li>OELV 15 minutes: 36 mg/m<sup>3</sup>.</li> </ul>
-Butoxyethanol	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) Absorbed through skin. Limit value 8 hours: 20 ppm. Limit value 8 hours: 98 mg/m <sup>3</sup> . Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 246 mg/m <sup>3</sup> .
ammonia, anhydrous	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) [Ammoniaca anidra] Limit value 8 hours: 20 ppm. Limit value 8 hours: 14 mg/m <sup>3</sup> . Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 36 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> .
ammonia, anhydrous	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) [Amonjaks] TWA 8 hours: 14 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm.

₽-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.
ammonia, anhydrous	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [amoniakas] TWA 8 hours: 14 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. STEL 15 minutes: 36 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm.
₽-Butoxyethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> .
ammonia, anhydrous	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [ammoniac anhydre] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m <sup>3</sup> .
₽-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> .
ammonia, anhydrous	<b>EU OEL (Europe, 1/2022) [ammonia, anhydrous]</b> TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m <sup>3</sup> .
₽-Butoxyethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 100 mg/m <sup>3</sup> . STEL 15 minutes: 246 mg/m <sup>3</sup> . TWA 8 hours: 20.4 ppm. STEL 15 minutes: 50 ppm.
ammonia, anhydrous	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) [ammoniak] TWA 8 hours: 14 mg/m <sup>3</sup> . STEL 15 minutes: 36 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. TWA 8 hours: 20 ppm.
-Butoxyethanol	<b>FOR-2011-12-06-1358 (Norway, 12/2022)</b> Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³.
ammonia, anhydrous	FOR-2011-12-06-1358 (Norway, 12/2022) [ammoniakk] TWA 8 hours: 15 ppm. TWA 8 hours: 11 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m <sup>3</sup> .
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	controls/personal protection Regulation of the Minister of Family, Labor and Social Policy
ammonia, anhydrous	of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 200 mg/m <sup>3</sup> . 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) [ammonia] TWA 8 hours: 14 mg/m <sup>3</sup> . STEL 15 minutes: 28 mg/m <sup>3</sup> .
2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014) A3.
ammonia, anhydrous	TWA 8 hours: 20 ppm. <b>Portuguese Institute of Quality (Portugal, 11/2014) [amoníaco]</b> TWA 8 hours: 25 ppm. STEL 15 minutes: 35 ppm.
Putoxyethanol ammonia, anhydrous	<ul> <li>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin.</li> <li>VLA 8 hours: 98 mg/m<sup>3</sup>.</li> <li>VLA 8 hours: 20 ppm.</li> <li>Short term 15 minutes: 246 mg/m<sup>3</sup>.</li> <li>Short term 15 minutes: 50 ppm.</li> <li>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [amoniac]</li> <li>VLA 8 hours: 14 mg/m<sup>3</sup>.</li> </ul>
	VLA 8 hours: 20 ppm. Short term 15 minutes: 36 mg/m <sup>3</sup> . Short term 15 minutes: 50 ppm.
2-Butoxyethanol	Government regulation SR c. 355/2006 (Slovakia, 7/2024) Absorbed through skin , Inhalation sensitiser. TWA 8 hours: 98 mg/m <sup>3</sup> . TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm.
ammonia, anhydrous	Government regulation SR c. 355/2006 (Slovakia, 7/2024) [amoniak] Inhalation sensitiser. TWA 8 hours: 14 mg/m <sup>3</sup> (ammonia). TWA 8 hours: 20 ppm (ammonia). STEL 15 minutes: 36 mg/m <sup>3</sup> (ammonia). STEL 15 minutes: 50 ppm (ammonia).
pyrithione zinc	Government regulation SR c. 355/2006 (Slovakia, 7/2024) [zinok a jeho anorganické zlúčeniny] Inhalation sensitiser. TWA 8 hours: 0.1 mg/m <sup>3</sup> (Zinc and its inorganic compounds). Form: Respirable fraction. TWA 8 hours: 2 mg/m <sup>3</sup> (Zinc and its inorganic compounds). Form: Inhalable fraction.
₽-Butoxyethanol ammonia, anhydrous	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]. KTV 15 minutes: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) [amoniak]
Date of issue/Date of revision	TWA 8 hours: 14 mg/m³.           : 12/06/2025         Date of previous issue         : 03/01/2024         Version         : 1.01         11/31

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	TWA 8 hours: 20 ppm. KTV 15 minutes: 36 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].
₽-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.
ammonia, anhydrous	National institute of occupational safety and health (Spain, 1/2024) [amoníaco] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m <sup>3</sup> .
₽-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> .
ammonia, anhydrous	Work environment authority Regulation 2018:1 (Sweden, 11/2022) [ammonia] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m <sup>3</sup> . STEL 5 minutes: 50 ppm. STEL 5 minutes: 36 mg/m <sup>3</sup> .
2-Butoxyethanol	<b>SUVA (Switzerland, 1/2024)</b> 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> .
ammonia, anhydrous	SUVA (Switzerland, 1/2024) [Ammoniak] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m <sup>3</sup> . STEL 15 minutes: 40 ppm. STEL 15 minutes: 28 mg/m <sup>3</sup> .
₽-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> .
ammonia, anhydrous	EH40/2005 WELs (United Kingdom (UK), 1/2020) [ammonia] STEL 15 minutes: 25 mg/m <sup>3</sup> . Form: anhydrous. STEL 15 minutes: 35 ppm. Form: anhydrous. TWA 8 hours: 25 ppm. Form: anhydrous. TWA 8 hours: 18 mg/m <sup>3</sup> . Form: anhydrous.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
No exposure indices known.	
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2-Butoxyethanol	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shir at the end of the week.
	Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.
No exposure indices known.	
2-Butoxyethanol	Biological limit values (BLV) - Labour Code / ANSES (France 4/2023) [2-butoxyethanol and its acetate] BLV: 100 mg/g Cr, 2-butoxyacetic acid [in urine]. Sampling time end of shift (regardless of the day of the week).
2-Butoxyethanol	<ul> <li>DFG BEI-values list (Germany, 7/2023) Notes: danger from percutaneous absorption (see p. 211 and p. 228).</li> <li>BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts.</li> <li>TRGS 903 - BEI Values (Germany, 2/2024)</li> <li>BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of the shift after several shifts.</li> </ul>
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
2-Butoxyethanol	<b>NAOSH (Ireland, 1/2011)</b> BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end shift - As soon as possible after exposure ceases.
No exposure indices known.	
2-Butoxyethanol	<b>Portuguese Institute of Quality (Portugal, 11/2014)</b> BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.
No exposure indices known.	
No exposure indices known.	
Butoxyethanol	Regulation on protection of workers from the risks related t exposure to chemical substances at work (Slovenia, 4/2024) BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [i 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.

SECTION 8: Exposure controls/personal protection		
No exposure indices known.		
₽-Butoxyethanol	u	<b>BUVA (Switzerland, 1/2024)</b> BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in rine]. Sampling time: immediately after exposure or after working ours. In case of long-term exposure: after more than one shift.
₽-Butoxyethanol		H40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Campling time: post shift.
Recommended monitoring : procedures	European Standa assessment of ex values and measu atmospheres - Gu of exposure to che (Workplace atmos for the measurem	be made to monitoring standards, such as the following: rd EN 689 (Workplace atmospheres - Guidance for the sposure by inhalation to chemical agents for comparison with limit urement strategy) European Standard EN 14042 (Workplace uide for the application and use of procedures for the assessment emical and biological agents) European Standard EN 482 spheres - General requirements for the performance of procedures tent of chemical agents) Reference to national guidance ethods for the determination of hazardous substances will also be
DNELs/DMELs		
Product/ingredient name		<b>Result</b> DNEL - General population - Long term - Inhalation 28 μg/m³ <u>Effects</u> : Local
		<b>DNEL - Workers - Long term - Inhalation</b> 170 μg/m³ <u>Effects</u> : Local
2-Butoxyethanol		<b>DNEL - General population - Long term - Oral</b> 6.3 mg/kg bw/day <u>Effects</u> : Systemic
		<b>DNEL - General population - Short term - Oral</b> 26.7 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Long term - Inhalation 59 mg/m <sup>3</sup> Effects: Systemic
		DNEL - Workers - Long term - Inhalation 98 mg/m <sup>3</sup> Effects: Systemic
		DNEL - General population - Short term - Inhalation 147 mg/m <sup>3</sup> Effects: Local
		DNEL - Workers - Short term - Inhalation 246 mg/m³ <u>Effects</u> : Local
		DNEL - General population - Short term - Inhalation 426 mg/m <sup>3</sup> Effects: Systemic
		DNEL - Workers - Short term - Inhalation 1091 mg/m³ <u>Effects</u> : Systemic
Reaction mass of Bis(1,2,2,6,6 4-piperidyl) sebacate and Meth 1,2,2,6,6-pentamethyl-4-piperic	yl	<b>DNEL - General population - Long term - Oral</b> 0.18 mg/kg bw/day <u>Effects</u> : Systemic

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**DNEL - General population - Long term - Inhalation** 0.31 mg/m<sup>3</sup> <u>Effects</u>: Systemic

**DNEL - General population - Long term - Dermal** 0.9 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Inhalation 1.27 mg/m<sup>3</sup> Effects: Systemic

**DNEL - Workers - Long term - Dermal** 1.8 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - General population - Long term - Inhalation** 2.8 mg/m<sup>3</sup> Effects: Local

**DNEL - General population - Short term - Oral** 6.8 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - General population - Long term - Oral** 6.8 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - General population - Short term - Dermal** 6.8 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - General population - Long term - Dermal** 6.8 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - Workers - Short term - Dermal** 6.8 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - Workers - Long term - Dermal** 6.8 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - General population - Short term - Inhalation** 7.2 mg/m<sup>3</sup> Effects: Local

DNEL - Workers - Long term - Inhalation 14 mg/m<sup>3</sup> <u>Effects</u>: Local

**DNEL - General population - Short term - Inhalation** 23.8 mg/m<sup>3</sup> <u>Effects</u>: Systemic

**DNEL - General population - Long term - Inhalation** 23.8 mg/m<sup>3</sup> Effects: Systemic

DNEL - Workers - Short term - Inhalation 36 mg/m<sup>3</sup> Effects: Local

**DNEL - Workers - Short term - Inhalation** 

ammonia, anhydrous

SECTION 8: Exposure controls/p	personal protection
	47.6 mg/m³ <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 47.6 mg/m <sup>3</sup> <u>Effects</u> : Systemic
2,4,7,9-tetramethyl-5-decyne-4,7-diol	<b>DNEL - General population - Long term - Oral</b> 0.29 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Dermal</b> 0.29 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 0.505 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 0.812 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 2.86 mg/m <sup>3</sup> Effects: Systemic
1,2-benzisothiazol-3(2H)-one	<b>DNEL - General population - Long term - Dermal</b> 0.345 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 0.966 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 1.2 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 6.81 mg/m <sup>3</sup> <u>Effects</u> : Systemic
pyrithione zinc	<b>DNEL - Workers - Long term - Dermal</b> 0.01 mg/kg bw/day <u>Effects</u> : 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 measured	res	
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.

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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	:	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 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	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	:
Ingredient name	°C

	Ingredient name		°C	°F	Method
	water		100	212	
	2-Butoxyethanol		171 to 171.5	339.8 to 340.7	IP 123-93
F	lammability	: Not ava	ilable.		
	ower and upper explosion mit		Not applicable. Not applicable.		
F	lash point	: Closed	cup: >100°C (>212	2°F)	
A	uto-ignition temperature	:			

Ingredient name	°C	°F	Method	
2-Butoxyethanol	230	446	DIN 51794	
N,N'-ethylenedi(stearamide)	380	716	DIN 51794	
Decomposition temperature	: Not available.			
Н	: 8 to 9 [Conc. (% w/	w): 100%]		
/iscosity	: Not available.			
olubility(ies)	1			
Not available.				
Solubility in water	: Not available.			

Partition coefficient: n-octanol/ : No water	ot applicable.

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#### Vapour pressure

	Vapour Pressure at 20°C		Va	Vapour pressu		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
2-Butoxyethanol	0.75006	0.1				
Relative density	: Not	available.				
Density	: 1.2	g/cm³				
Vapour density	: Not	available.				
Particle characteristics						
Median particle size	: Not	applicable.				
2 Other information						
9.2.1 Information with rega	ard to physic	cal hazard o	lasses			
Explosive properties	: Not	available.				
Oxidising properties	: Not	available.				

#### 9.2.2 Other safety characteristics

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** Result Reaction mass of Bis(1,2,2,6,6-pentamethyl-Rat - Oral - LD50 4-piperidyl) sebacate and Methyl 3230 mg/kg 1,2,2,6,6-pentamethyl-4-piperidyl sebacate Rat - Dermal - LD50 >3170 mg/kg ammonia, anhydrous Rat - Inhalation - LC50 Gas. 2000 ppm [4 hours] Rat - Inhalation - LC50 Gas. 9500 ppm [1 hours] Rat - Inhalation - LC50 Vapour 4673 mg/m<sup>3</sup> [4 hours] Rat - Oral - LD50 1,2-benzisothiazol-3(2H)-one 1020 mg/kg Rat - Oral - LD50 pyrithione zinc 177 mg/kg Rabbit - Dermal - LD50 100 mg/kg

#### Rat - Inhalation - LC50 Dusts and mists

140 mg/m<sup>3</sup> [4 hours] <u>Toxic effects</u>: Lung, Thorax, or Respiration - Acute pulmonary edema Lung, Thorax, or Respiration - Dyspnea Gross Metabolite Changes - Weight loss or decreased weight gain

#### **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)
TERNO FASSADENGRAU 3329-30 2-Butoxyethanol Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	68188.0 1200 3230	N/A N/A N/A	680549.9 N/A N/A	154.0 3 N/A	N/A N/A N/A
ammonia, anhydrous 1,2-benzisothiazol-3(2H)-one pyrithione zinc	N/A 450 221	N/A N/A N/A	2000 N/A N/A	4.673 N/A N/A	N/A 0.21 0.14

Skin corrosion/irritation
Product/ingredient name
<b>tit</b> anium dioxide

Result

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

Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant Amount/concentration applied: 0.5 gm

2-Butoxyethanol

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

<u>Amount concentration applied</u>.

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1,2-benzisothiazol-3(2H)-one	Human - Skin - Mild irritant Duration of treatment/exposure: 48 hours
	Amount/concentration applied: 5 %
Conclusion/Summary [Product] : Not a	available.
Serious eye damage/eye irritation	
Product/ingredient name 2-Butoxyethanol	Result Rabbit - Eyes - Moderate irritant
	<u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 100 mg
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 100 mg
2,4,7,9-tetramethyl-5-decyne-4,7-diol	Rabbit - Eyes - Severe irritant Amount/concentration applied: 0.1 MI
Conclusion/Summary [Product] : Not a	available.
Respiratory corrosion/irritation	
Not available.	
Conclusion/Summary [Product] : Not a	available.
Respiratory or skin sensitization	
Not available.	
Skin	
Conclusion/Summary [Product] : Not a	available.
Respiratory	
Conclusion/Summary [Product] : Not a	available.
Germ cell mutagenicity	
Not available.	
Conclusion/Summary [Product] : Not a	available.
Carcinogenicity	
It has been observed that the carcinogenic ha leading to significant impairment of particle cl	azard of this product arises when respirable dust is inhaled in quantities earance mechanisms in the lung.
Not available.	J
Conclusion/Summary [Product] : Not a	available.
Reproductive toxicity	
Not available.	
Conclusion/Summary [Product] : Not a	available.
Specific target organ toxicity (single expos	sure)

SECTION 11: Toxico	logical information
Specific target organ toxici	ty (repeated exposure)
Product/ingredient name	Result
pyrithione zinc	STOT RE 1, H372
Aspiration hazard	
Not available.	
Information on likely routes	of exposure
Not available.	
Potential acute health effec	<u>ts</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	nysical, 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	ects 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 eff	<u>ects</u>
Not available.	
Conclusion/Summary [Pr	oduct] : Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
<b>1.2 Information on other ha</b> <b>11.2.1 Endocrine disrupting</b> Not available.	
Conclusion/Summary [Pr	<ul> <li>oduct] : 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: Ecological information**

# 12.1 Toxicity Product/ingredient name

titanium dioxide

#### 2-Butoxyethanol

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

ammonia, anhydrous

#### 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 - Marine water

Fish - Inland silverside - *Menidia beryllina* <u>Size</u>: 40 to 100 mm 1250000 μg/l [96 hours] <u>Effect</u>: Mortality

#### Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - *Crangon crangon* 800000 µg/l [48 hours] <u>Effect</u>: Mortality

#### Acute - LC50

OECD [Fish, Acute Toxicity Test] Fish - *Brachydanio rerio* 0.9 mg/l [96 hours]

#### EC50

OECD [Alga, Growth Inhibition Test] Aquatic plants - *Desmodesmodus subspicatus* 1.68 mg/l [72 hours]

#### **Chronic - NOEC** OECD [Daphnia Magna Reproduction Test] Daphnia - Daphnia 1 mg/l [21 days]

#### Acute - LC50 - Fresh water

Fish - Carp - *Hypophthalmichthys nobilis* 300 µg/l [96 hours] Effect: Mortality

#### Acute - LC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* 0.53 ppm [48 hours] <u>Effect</u>: Mortality

#### Acute - EC50 - Marine water

Algae - Sea Lettuce - *Ulva fasciata* - Zoea 29.2 mg/l [96 hours] <u>Effect</u>: Reproduction

#### **Chronic - NOEC - Marine water**

Fish - Sea bass - *Dicentrarchus labrax* <u>Weight</u>: 131.3 g 0.204 mg/l [62 days] <u>Effect</u>: Biochemistry

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

LC50 Fish - *Cyprinus carpio* 42 mg/l [96 hours]

Date of issue/Date of revision: 12/06/2025Date of previous issue: 03/01/2024ETERNO FASSADENGRAU 3329-30 - All variants

Version : 1.01 22/31 Label No : 113490

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	<b>EC50</b> Daphnia - <i>Daphnia magna</i> 91 mg/l [48 hours]
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 an 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]
pyrithione zinc	<b>Acute - EC50 - Marine water</b> Algae - Diatom - <i>Thalassiosira pseudonana</i> 0.51 μg/l [96 hours] <u>Effect</u> : Population
	<b>Chronic - EC10 - Marine water</b> Algae - Diatom - <i>Thalassiosira pseudonana</i> 0.36 μg/l [96 hours] <u>Effect</u> : Population
	<b>Chronic - NOEC - Fresh water</b> US EPA Daphnia - Water flea - <i>Daphnia magna</i> 2.7 ppb [21 days] <u>Effect</u> : Growth
	<b>Acute - EC50 - Fresh water</b> US EPA Daphnia - Water flea - <i>Daphnia magna</i> <u>Age</u> : <24 hours 8.25 ppb [48 hours] <u>Effect</u> : Intoxication
	<b>Acute - LC50 - Fresh water</b> US EPA Fish - Fathead minnow - <i>Pimephales promelas</i> <u>Weight</u> : 0.28 g 2.68 ppb [96 hours] <u>Effect</u> : Mortality
Conclusion/Summary [Product] : Not	available.
2.2 Persistence and degradability	
Product/ingredient name	Result
10 hanniaathianal 2/211) ana	

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

EU 24% [28 days]

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

# **SECTION 12: Ecological information**

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

**12.3 Bioaccumulative potential** 

Product/ingredient name	LogPow	BCF	Potential
Butoxyethanol	0.81	-	Low
1,2-benzisothiazol-3(2H)-one	-	3.2	Low
pyrithione zinc	0.9	11	Low

#### 12.4 Mobility in soil

#### Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
P-Butoxyethanol	1.83	67.3685
2,4,7,9-tetramethyl-5-decyne-4,7-diol	1.92	83.8929
1,2-benzisothiazol-3(2H)-one	1.86	73.142

#### Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	Μ	т	vPvM	vP	٧M
titanium dioxide	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No
Reaction mass of Bis (1,2,2,6,6-pentamethyl-	No	No	No	No	No	No	No
4-piperidyl) sebacate and							
Methyl							
1,2,2,6,6-pentamethyl-							
4-piperidyl sebacate							
ammonia, anhydrous	No	No	No	No	No	No	No
2,4,7,9-tetramethyl-	No	No	No	No	No	No	No
5-decyne-4,7-diol							
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
pyrithione zinc	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	No	No	No	No	No	No
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No
Reaction mass of Bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl	No	No	No	No	No	No	No
1,2,2,6,6-pentamethyl- 4-piperidyl sebacate							
ammonia, anhydrous	No	No	No	No	No	No	No
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
pyrithione zinc	No	No	No	No	No	No	No

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

# **SECTION 12: Ecological information**

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
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No
Reaction mass of Bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-	Νο	No	No	No	No	No	No
4-piperidyl sebacate							
ammonia, anhydrous	No	No	No	No	No	No	No
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
pyrithione zinc	No	No	No	No	No	No	No

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

#### **12.6 Endocrine disrupting properties**

Not available.

**Conclusion/Summary [Product]** 

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

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

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

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

1

### 13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
European waste catalogue (EWC)	: 08.01.19
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.

:03/01/2024

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	9006	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
14.3 Transport hazard class(es)	-	9		
14.4 Packing group	-	-		
14.5 Environmental hazards	No.	Yes.	<b>№</b> 0.	<b>N</b> o.
Additional informa	tion	1		•
ADN	: The prod vessels.	uct is only regulated as a c	angerous good whe	n transported in tank
ΙΑΤΑ		onmentally hazardous sub ation regulations.	ostance mark may ap	pear if required by other
14.6 Special precau user	upright a		sons transporting the	closed containers that are e product know what to do in
14.7 Maritime trans bulk according to li instruments		ant/applicable due to natur	re of the product.	

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	%	Designation [Usage]
TERNO FASSADENGRAU 3329-30	≥90	3
Labelling :		•

#### Other FU regulations

Other EU regulations	
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed

<u>es (EU 2024/590)</u>					
<u>IC) (649/2012/EU)</u>					
nts					
d under the Seveso Directive.					
: Permitted.					
$rac{1}{2}$					
<u>nə dimek vi.2-1 - vi.2-3</u>		Status			
		Listed Listed			
		ļ			
: IV					
: 📈-1					
<u>2015</u>					
	Annex I Section A	Annex I Section B			
	Listed	-			
: 2-6					
<ul> <li>According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:</li> </ul>					
coveralls/protective clothing r clothes do not adequately pro shield must be worn in work i case, other recommended us In all spraying operations in w air supply and arm protectors	nust be worn when soiling is so otect skin against contact with nvolving spattering if a full mas se of eye protection is not requ which there is return spray, resp	o great that regular work the product. A face sk is not required. In this ired. piratory protection with			
treatments in a spray booth w working in similar new* faciliti type where the operator is wo booths and cabins with non-a - Protective clothing must be	where the operator is outside the les of the combined-cabin, spra- brking inside the spray zone. W tomizing guns. worn. brush, roller, etc, for pre- and	e spray zone and when ay-cabin and spray-boo /hen spraying in new* post-treatments in			
	<ul> <li>Permitted.</li> <li>Its annex VI.2-1 - VI.2-3</li> <li>IV</li> <li>IV</li> <li>IV-1</li> <li>IV-1</li> <li>I</li> <li>I<td>d under the Seveso Directive.         : Permitted.         tts annex VI.2-1 - VI.2-3         : IV         : IV         : IV-12015         Annex I Section A         Listed         : I*6         : I*70            : I</td></li></ul>	d under the Seveso Directive.         : Permitted.         tts annex VI.2-1 - VI.2-3         : IV         : IV         : IV-12015         Annex I Section A         Listed         : I*6         : I*70            : I			

	Air supplied half mask and protoctive elething must be wern
	- Air-supplied half mask and protective clothing must be worn.
	When spraying in existing* spray booths, if the operator is outside the spray zone
	- Air-supplied full mask and protective clothing 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. During downtimes, cleaning and repair in closed facilities, spray booths or cabins there is a risk of contact with wet paint or organic solvents.
	- Air-supplied half mask, protective clothing and eye protection 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, ca or booth.
	- Air-supplied full mask, protective clothing and hood must be worn.
	<b>Drying:</b> Items for drying/drying ovens that are temporarily placed on such things rack trolleys, etc, must be equipped with a mechanical exhaust system to preven fumes from wet items from passing through workers' inhalation zone.
	<b>Polishing:</b> When polishing treated surfaces, a mask with dust filter must be wor When machine grinding, eye protection must be worn. Work gloves must always worn.
	<b>Caution</b> The regulations contain other stipulations in addition to the above.
	*See Regulations.
Low-boiling liquids	: This product contains low-boiling point liquids. Any respiratory protective equipments should be air-fed.
Restrictions on use	: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At W
List of undesirable substances	: Not listed
Carcinogenic waste	: Waste containers must be labeled: Contains a substance or substances regulate by Danish working environment legislation on cancer risks.
<u>Finland</u>	
France	
Social Security Code, Articles L 461-1 to L 461-7	: Z-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)	: 10
Hazardous incident ordina	nce
This product is not controlled	I under the Germany Hazardous Incident Ordinance.
Hazard class for water	: 2
Technical instruction on ai	r quality control (TA Luft)
Number [Class]	Description %
<b>5</b> .2.1	Total dust 42.6
5.2.4 [III]	Gaseous inorganic substances 0.29
	Organic substances8Organic substances3.3
5.2.5 5.2.5 III	
5.2.5 5.2.5 [I] AOX	: The product contains organically bound halogens and can contribute to the AOX
5.2.5 [l]	

## SECTION 15: Regulatory information

#### **Italy**

D.Lgs. 152/06

: Not determined.

#### **Netherlands**

Ministry of Social Affairs and Employment (SZW) - Carcinogenic substances and processes, mutagenic or reprotoxic substances

Ingredient name	Carcinogen	•	toxicity -		Harmful via breastfeeding
xylene	-	-	-	Development 2	-

 Water Discharge Policy (ABM)
 : Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ toxicity or persistence). Decontamination effort: Z

#### <u>Norway</u>

Sweden

Switzerland

VOC content : Exempt.

#### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

**15.2 Chemical safety assessment assessment assessment assessment assessment assessment** 

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

Indicates information that has changed from previously issued version.

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

SECTION 16: Other information		
<b>⊮</b> 221	Flammable gas.	
H280	Contains gas under pressure; may explode if heated.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
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.	
H360D	May damage the unborn child.	
H361f	Suspected of damaging fertility.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	

#### Full text of classifications [CLP/GHS]

Cute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Gas 2	FLAMMABLE GASES - Category 2
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
Date of issue/ Date of	: 12/06/2025
revision	
Date of previous issue	e : 03/01/2024
Version	: 1.01

#### 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.