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

# **SAFETY DATA SHEET**



TEKNODUR AQUA 3393-23 - BASE 2

### 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	Warning	
Hazard statements	H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	P280 - Wear protective gloves. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.	
Response	₱302 + P352 - IF ON SKIN: Wash with plenty of water. P362 + P364 - Take off contaminated clothing and wash it before reuse.	
Storage	Not applicable.	
Disposal	P501 - Dispose of contents and container in accordance with all local, regiona national and international regulations.	ıl,

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

SECTION 2. Hazarus	ю	ientincation
Hazardous ingredients	:	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 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
Supplemental label elements	:	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Contains biocidal products for in-can preservation: C(M)IT/ MIT (3:1).
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.

# SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Manium 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]
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]
Triethylamine	REACH #: 01-2119475467-26 EC: 204-469-4 CAS: 121-44-8 Index: 612-004-00-5	≤0.3	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1A, H314	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation	[1] [2]
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			Eye Dam. 1, H318 STOT SE 3, H335	(vapours)] = 7.2 mg/l STOT SE 3, H335: C ≥ 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	<0.0015	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: C $\geq$ 0.6% Eye Dam. 1, H318: C $\geq$ 0.6% Eye Irrit. 2, H319: 0.06% $\leq$ C $<$ 0.6% Skin Sens. 1, H317: C $\geq$ 0.0015% M [Acute] = 100 M [Chronic] = 100	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

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

4.1 Description of first aid me	asures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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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.
	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	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
SECTION 5: Firefight	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 sulfur oxides 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.
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	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".

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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	<ul> <li>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.</li> </ul>
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 spilt 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 Industrial sector specific solutions

- : Not available.
- : 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

Product/ingredient name	Exposure limit values
2-Butoxyethanol	<ul> <li>Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed 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 times per shift.</li> <li>PEAK 30 minutes: 200 mg/m<sup>3</sup> 4 times per shift.</li> </ul>
Triethylamine	Regulation on Limit Values - MAC (Austria, 4/2021) TWA 8 hours: 2 ppm. TWA 8 hours: 8.4 mg/m <sup>3</sup> . PEAK 15 minutes: 3 ppm 4 times per shift. PEAK 15 minutes: 12.6 mg/m <sup>3</sup> 4 times per shift.
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Regulation on Limit Values - MAC (Austria, 4/2021) [5-Chlor- 2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-di- hydroisothiazol-3-on (Gemisch im Verhältnis 3:1)] Skin sensitiser. TWA 8 hours: 0.05 mg/m <sup>3</sup> .
2-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> .
Triethylamine	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 0.5 ppm. TWA 8 hours: 2.07 mg/m <sup>3</sup> . STEL 15 minutes: 1 ppm. STEL 15 minutes: 4.14 mg/m <sup>3</sup> .
2-Butoxyethanol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin. Limit value 8 hours: 98 mg/m <sup>3</sup> . Limit value 15 minutes: 246 mg/m <sup>3</sup> . Limit value 15 minutes: 50 ppm. Limit value 8 hours: 20 ppm.
Triethylamine	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin. Limit value 15 minutes: 12.6 mg/m <sup>3</sup> . Limit value 8 hours: 8.4 mg/m <sup>3</sup> . Limit value 15 minutes: 3 ppm. Limit value 8 hours: 2 ppm.
2-Butoxyethanol	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex (Croatia, 12/2023) Absorbed through skin. STELV 15 minutes: 246 mg/m <sup>3</sup> . STELV 15 minutes: 50 ppm. ELV 8 hours: 98 mg/m <sup>3</sup> . ELV 8 hours: 20 ppm.
Triethylamine	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: 12.6 mg/m <sup>3</sup> . STELV 15 minutes: 3 ppm. ELV 8 hours: 8.4 mg/m <sup>3</sup> . ELV 8 hours: 2 ppm.

#### 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>. Triethylamine Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 3 ppm. STEL 15 minutes: 12.6 mg/m<sup>3</sup>. TWA 8 hours: 2 ppm. TWA 8 hours: 8.4 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. Triethylamine Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 8 mg/m<sup>3</sup>. TWA 8 hours: 1.9 ppm. STEL 15 minutes: 12 mg/m<sup>3</sup>. STEL 15 minutes: 2.85 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. Triethylamine Working Environment Authority (Denmark, 3/2024) Absorbed through skin. TWA 8 hours: 1 ppm. TWA 8 hours: 4.1 mg/m<sup>3</sup>. STEL 15 minutes: 12.6 mg/m<sup>3</sup>. STEL 15 minutes: 3 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. Triethylamine Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 8.4 mg/m<sup>3</sup>. TWA 8 hours: 2 ppm. STEL 15 minutes: 12.6 mg/m<sup>3</sup>. STEL 15 minutes: 3 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>. Triethylamine EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 2 ppm. TWA 8 hours: 8.4 mg/m<sup>3</sup>. STEL 15 minutes: 3 ppm. STEL 15 minutes: 12.6 mg/m<sup>3</sup>.

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### 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.
Triethylamine	STEL 15 minutes: 250 mg/m <sup>3</sup> . Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin. STEL 15 minutes: 1 ppm. STEL 15 minutes: 4.2 mg/m <sup>3</sup> .
<b>₽</b> -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)
Triethylamine	Ministry of Labor (France, 6/2024) Absorbed through skin. STEL 15 minutes: 3 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 12.6 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 4.2 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 1 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
<b>₽</b> -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> </ul>
Triethylamine	<ul> <li>PEAK 15 minutes: 98 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</li> <li>TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 4.2 mg/m<sup>3</sup>. PEAK 15 minutes: 8.4 mg/m<sup>3</sup>. TWA 8 hours: 1 ppm. PEAK 15 minutes: 2 ppm.</li> <li>DFG MAC-values list (Germany, 7/2023) Develop D. TWA 8 hours: 1 ml/m<sup>3</sup>. PEAK 15 minutes: 2 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 4.2 mg/m<sup>3</sup>. PEAK 15 minutes: 8.4 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 2 ml/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</li> </ul>
Z-Butoxyethanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m <sup>3</sup> . Presidential Decree 307/1986: Occupational exposure limit
Triethylamine	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 40 mg/m <sup>3</sup> . STEL 15 minutes: 15 ppm. STEL 15 minutes: 60 mg/m <sup>3</sup> .
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2-Butoxyethanol	<b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)</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.			
Triethylamine	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through skin. TWA 8 hours: 8.4 mg/m <sup>3</sup> . PEAK 15 minutes: 12.6 mg/m <sup>3</sup> . PEAK 15 minutes: 3 ppm. TWA 8 hours: 2 ppm.			
₽-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.			
Triethylamine	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Absorbed through skin. STEL 15 minutes: 12.6 mg/m <sup>3</sup> . STEL 15 minutes: 3 ppm. TWA 8 hours: 8.4 mg/m <sup>3</sup> . TWA 8 hours: 2 ppm.			
₽-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>			
Triethylamine	<ul> <li>NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values</li> <li>OELV 8 hours: 2 ppm.</li> <li>OELV 8 hours: 8.4 mg/m<sup>3</sup>.</li> <li>OELV 15 minutes: 3 ppm.</li> <li>OELV 15 minutes: 12.6 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> .			
Triethylamine	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) Absorbed through skin. Limit value 8 hours: 2 ppm. Limit value 8 hours: 8.4 mg/m <sup>3</sup> . Short Term 15 minutes: 3 ppm. Short Term 15 minutes: 12.6 mg/m <sup>3</sup> .			
₽-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> .			
Triethylamine	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) STEL 15 minutes: 3 ppm. TWA 8 hours: 8.4 mg/m <sup>3</sup> . STEL 15 minutes: 12.6 mg/m <sup>3</sup> . TWA 8 hours: 2 ppm.			

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OF OTION OF EXPOSITI	
Z-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.
Triethylamine	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Absorbed through skin. TWA 8 hours: 8.4 mg/m <sup>3</sup> . TWA 8 hours: 2 ppm. STEL 15 minutes: 12.6 mg/m <sup>3</sup> . STEL 15 minutes: 3 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> .
Triethylamine	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin. TWA 8 hours: 2 ppm. TWA 8 hours: 8.4 mg/m <sup>3</sup> . STEL 15 minutes: 3 ppm. STEL 15 minutes: 12.6 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> .
Triethylamine	<b>EU OEL (Europe, 1/2022)</b> Absorbed through skin. TWA 8 hours: 2 ppm. TWA 8 hours: 8.4 mg/m <sup>3</sup> . STEL 15 minutes: 3 ppm. STEL 15 minutes: 12.6 mg/m <sup>3</sup> .
2-Butoxyethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 100 mg/m <sup>3</sup> . STEL 15 minutes: 246 mg/m <sup>3</sup> . TWA 8 hours: 20.4 ppm. STEL 15 minutes: 50 ppm.
Triethylamine	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 4.2 mg/m <sup>3</sup> . STEL 15 minutes: 12.6 mg/m <sup>3</sup> . STEL 15 minutes: 3 ppm. TWA 8 hours: 1 ppm.
Butoxyethanol	<b>FOR-2011-12-06-1358 (Norway, 12/2022)</b> Absorbed through skin. TWA 8 hours: 10 ppm.
Triethylamine	TWA 8 hours: 50 mg/m <sup>3</sup> . <b>FOR-2011-12-06-1358 (Norway, 12/2022)</b> Absorbed through skin. TWA 8 hours: 2 ppm. TWA 8 hours: 8 mg/m <sup>3</sup> .
-Butoxyethanol	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 200 mg/m <sup>3</sup> .
Triethylamine Date of issue/Date of revision	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations         : 14/04/2025       Date of previous issue       : 31/10/2023       Version       : 2       10/29
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### **SECTION 8: Exposure controls/personal protection**

	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: 3 mg/m <sup>3</sup> . STEL 15 minutes: 9 mg/m <sup>3</sup> .
2-Butoxyethanol Triethylamine	<ul> <li>Portuguese Institute of Quality (Portugal, 11/2014) A3. TWA 8 hours: 20 ppm.</li> <li>Portuguese Institute of Quality (Portugal, 11/2014) A4.</li> <li>Absorbed through skin. TWA 8 hours: 1 ppm.</li> <li>STEL 15 minutes: 3 ppm.</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.
Triethylamine	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 8.4 mg/m <sup>3</sup> . VLA 8 hours: 2 ppm. Short term 15 minutes: 12.6 mg/m <sup>3</sup> . Short term 15 minutes: 3 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.
Triethylamine	Government regulation SR c. 355/2006 (Slovakia, 7/2024) Absorbed through skin, Inhalation sensitiser. TWA 8 hours: 8.4 mg/m <sup>3</sup> . TWA 8 hours: 2 ppm. STEL 15 minutes: 12.6 mg/m <sup>3</sup> . STEL 15 minutes: 3 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
Triethylamine	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: 8.4 mg/m <sup>3</sup> . TWA 8 hours: 2 ppm. KTV 15 minutes: 12.6 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: 3 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes
2-Butoxyethanol	National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m <sup>3</sup> . STEL 15 minutes: 245 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm.
Triethylamine	National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 2 ppm.

	TWA 8 hours: 8.4 mg/m <sup>3</sup> .
	STEL 15 minutes: 3 ppm.
	STEL 15 minutes: 12.6 mg/m <sup>3</sup> .
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/m³.
Triathydomina	6
Triethylamine	Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin.
	TWA 8 hours: 1 ppm.
	TWA 8 hours: 4.2 mg/m <sup>3</sup> .
	STEL 15 minutes: 3 ppm.
	STEL 15 minutes: $12.6 \text{ mg/m}^3$ .
2-Butoxyethanol	SUVA (Switzerland, 1/2024) Absorbed through skin.
	TWA 8 hours: 10 ppm.
	TWA 8 hours: 49 mg/m <sup>3</sup> .
	STEL 15 minutes: 20 ppm.
	STEL 15 minutes: 98 mg/m <sup>3</sup> .
Triethylamine	SUVA (Switzerland, 1/2024)
	TWA 8 hours: 1 ppm.
	TWA 8 hours: 4.2 mg/m <sup>3</sup> .
	STEL 15 minutes: 2 ppm.
	STEL 15 minutes: 8.4 mg/m <sup>3</sup> .
reaction mass of: 5-chloro-2-methyl-	SUVA (Switzerland, 1/2024) Sensitiser.
4-isothiazolin-3-one [EC no. 247-500-7] and	STEL 15 minutes: 0.4 mg/m <sup>3</sup> . Form: Inhalable fraction.
2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	TWA 8 hours: 0.2 mg/m <sup>3</sup> . Form: Inhalable fraction.
2 <sup>-</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> .
<b>-</b> · <i>u</i> · ·	TWA 8 hours: 123 mg/m <sup>3</sup> .
Triethylamine	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed
	through skin. STEL 15 minutes: 17 mg/m³.
	TWA 8 hours: 2 ppm.
	TWA 8 hours: 8 mg/m <sup>3</sup> .
	STEL 15 minutes: 4 ppm.

#### **Biological exposure indices**

Product/ingredient i	name Exposure indices
No exposure indices known.	
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 shift at the end of the week. Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at
	the end of the week.

No exposure indices known.	
No exposure indices known.	
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 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 c shift - As soon as possible after exposure ceases.
No exposure indices known.	
2-Butoxyethanol	<b>Portuguese Institute of Quality (Portugal, 11/2014)</b> BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.
No exposure indices known.	
No exposure indices known.	
<b>2</b> -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, 1/2024)</b> BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [ir urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
<b>2</b> -Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.

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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	
utanium 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	
		DNEL - General population - Long term - Inhalation 59 mg/m <sup>3</sup> Effects: Systemic	
		<b>DNEL - Workers - Long term - Inhalation</b> 98 mg/m³ <u>Effects</u> : Systemic	
		<b>DNEL - General population - Short term - Inhalation</b> 147 mg/m³ <u>Effects</u> : Local	
		<b>DNEL - Workers - Short term - Inhalation</b> 246 mg/m³ <u>Effects</u> : Local	
		DNEL - General population - Short term - Inhalation 426 mg/m <sup>3</sup> <u>Effects</u> : Systemic	
		<b>DNEL - Workers - Short term - Inhalation</b> 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-piperid	yl	<b>DNEL - General population - Long term - Oral</b> 0.18 mg/kg bw/day <u>Effects</u> : Systemic	
		<b>DNEL - General population - Long term - Inhalation</b> 0.31 mg/m <sup>3</sup> <u>Effects</u> : Systemic	
		<b>DNEL - General population - Long term - Dermal</b> 0.9 mg/kg bw/day <u>Effects</u> : Systemic	

#### DNEL - Workers - Long term - Inhalation

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	1.27 mg/m³ <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 1.8 mg/kg bw/day <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 - Inhalatic</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
	<b>DNEL - Workers - Long term - Inhalation</b> 2.86 mg/m <sup>3</sup> <u>Effects</u> : Systemic
riethylamine	<b>DNEL - Workers - Long term - Inhalation</b> 8.4 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Inhalation</b> 8.4 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Short term - Inhalation</b> 12.6 mg/m³ <u>Effects</u> : Local
	<b>DNEL - Workers - Short term - Inhalation</b> 12.6 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 12.1 mg/kg bw/day <u>Effects</u> : Systemic
eaction mass of: 5-chloro-2-methyl- l-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	<b>DNEL - General population - Long term - Inhalatic</b> 0.02 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Inhalation</b> 0.02 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - General population - Short term - Inhalatio</b> 0.04 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - Workers - Short term - Inhalation</b> 0.04 mg/m <sup>3</sup> <u>Effects</u> : Local
	DNEL - General population - Long term - Oral 0.09 mg/kg bw/day

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

Effects: Systemic

**DNEL - General population - Short term - Oral** 0.11 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 airborn contaminants.		
Individual protection meas	ures de la constante de la const		
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	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>		
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other 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

: Liquid.
: White.
: Slight
: Not available.
: Not available.
:

Ingredient name		°C	°F	Method	
water		100	212		
2-Butoxyethanol		171 to 171.5	339.8 to 340.7	IP 123-93	
Flammability	: Not ava	ailable.	·	•	
Lower and upper explosion limit	: Kower: 0.6% (1-(2-butoxy-1-methylethoxy)propan-2-ol) Upper: 20.4% (1-(2-butoxy-1-methylethoxy)propan-2-ol)				

**Flash point** 

: Closed cup: >100°C (>212°F)

**Auto-ignition temperature** 

	Ingredient name	°C	°F	Method	
Ī	Propanol, 1-(2-butoxy-1-methylethoxy)	194	381.2	EU A.15	
	2-Butoxyethanol	230	446	DIN 51794	
D	Decomposition temperature : Not available.				

рН	: 7.5 to 8.5
Viscosity	: Not available.
Solubility(ies)	÷

Not available.

Solubility in water

: Not available.

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Partition coefficient: n-octanol/ : Not applicable.

#### water Vapour pressure

	Vapour Pressure at 20°C		Vapour pressure at 50°C		re 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 regard to physical hazard classes

- **Explosive properties** : Not available.
- : Not available. **Oxidising properties**

#### 9.2.2 Other safety characteristics

Not applicable.

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SECTION 10: Stabilit	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**

n Regulation (EC) No 1272/2008
Result
Rat - Oral - LD50
3230 mg/kg
Rat - Dermal - LD50
>3170 mg/kg
Rat - Oral - LD50
460 mg/kg
Rat - Oral - LD50
53 mg/kg
Toxic effects: 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)
FEKNODUR AQUA 3393-23 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	27732.8 1200 3230	197044.3 N/A N/A	N/A N/A N/A	117.0 3 N/A	N/A N/A N/A
Triethylamine 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)	100 53	300 50	N/A N/A	7.2 0.5	N/A N/A

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

Product/ingredient name

Result

SECTION 11: Toxicological informati	on
Manium dioxide	Human - Skin - Mild irritant Duration of treatment/exposure: 72 hours Amount/concentration applied: 300 ug l
2-Butoxyethanol	Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg
2,4,7,9-tetramethyl-5-decyne-4,7-diol	Rabbit - Skin - Mild irritant Amount/concentration applied: 0.5 gm
Triethylamine	Rabbit - Skin - Mild irritant Amount/concentration applied: 365 mg
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)	Human - Skin - Severe irritant Amount/concentration applied: 0.01 %
Conclusion/Summary [Product] : Not available	2.
Serious eye damage/eye irritation	
Product/ingredient name	Result
₽-Butoxyethanol	Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 100 mg
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 100 mg
2,4,7,9-tetramethyl-5-decyne-4,7-diol	Rabbit - Eyes - Severe irritant Amount/concentration applied: 0.1 MI
Conclusion/Summary [Product] : Not available	э.
Respiratory corrosion/irritation Not available.	
Conclusion/Summary [Product] : Not available	э.
Respiratory or skin sensitization Not available.	
Skin Conclusion/Summary [Product] : Not available	Э.
Respiratory Conclusion/Summary [Product] : Not available	Э.
<u>Germ cell mutagenicity</u> Not available.	
Conclusion/Summary [Product] : Not available	ð.
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.

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

Conclusion/Summary [P	roduct] : Not available.				
Reproductive toxicity Not available.					
Conclusion/Summary [P	roduct] : Not available.				
Specific target organ toxic	ity (single exposure)				
Product/ingredient name	Result				
<b>F</b> riethylamine	STOT SE 3, H335 (Respiratory tract irritation)				
Specific target organ toxic Not available.	ity (repeated exposure)				
Aspiration hazard Not available.					
Information on likely route	es of exposure				
Not available.	<u>S of exposure</u>				
Potential acute health effe	cts				
Eye contact	: No known significant effects or critical hazards.				
Inhalation	: No known significant effects or critical hazards.				
Skin contact	: May cause an allergic skin reaction.				
Ingestion : No known significant effects or critical hazards.					
Symptoms related to the physical, chemical and toxicological characteristics					
Eye contact	: No specific data.				
Inhalation	: No specific data.				
Skin contact	: Adverse symptoms may include the following: irritation redness				
Ingestion	: No specific data.				
Delayed and immediate eff	fects as well as chronic effects from short and long-term exposure				
Short term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects	B : Not available.				
Long term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects					
Potential chronic health ef Not available.	f <u>ects</u>				
Conclusion/Summary [P General	-				
	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.				
Carcinogenicity	: No known significant effects or critical hazards.				
Mutagenicity	: No known significant effects or critical hazards.				
Reproductive toxicity	: No known significant effects or critical hazards.				

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties Not available.

disru	product does not meet the criteria to be considered as having endocrine pting properties according to the criteria set out in either Regulation (EC 907/2006 or Regulation (EC) No 1272/2008.				
11.2.2 Other information					
Not available.					
<b>SECTION 12: Ecological inform</b>	ation				
12.1 Toxicity					
Product/ingredient name	<b>Result</b> 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				
2-Butoxyethanol	<b>Acute - LC50 - Marine water</b> Fish - Inland silverside - <i>Menidia beryllina</i> <u>Size</u> : 40 to 100 mm 1250000 μg/l [96 hours] <u>Effect</u> : Mortality				
	<b>Acute - LC50 - Marine water</b> Crustaceans - Common shrimp, sand shrimp - <i>Crangon</i> <i>crangon</i> 800000 μg/l [48 hours] <u>Effect</u> : Mortality				
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	<b>Acute - LC50</b> OECD [Fish, Acute Toxicity Test] Fish - <i>Brachydanio rerio</i> 0.9 mg/l [96 hours]				
	<b>EC50</b> OECD [Alga, Growth Inhibition Test] Aquatic plants - <i>Desmodesmodus subspicatus</i> 1.68 mg/l [72 hours]				
	<b>Chronic - NOEC</b> OECD [Daphnia Magna Reproduction Test] Daphnia - Daphnia 1 mg/l [21 days]				
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]				
Conclusion/Summary [Product] : Not a	available.				
<b>12.2 Persistence and degradability</b> Not available.					
Conclusion/Summary [Product] : Not a	available.				

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

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-Butoxyethanol	0.81	-	Low
Triethylamine	1.45	<0.5	Low

#### 12.4 Mobility in soil

#### Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
₽-Butoxyethanol	1.83	67.3685
2,4,7,9-tetramethyl-5-decyne-4,7-diol	1.92	83.8929
Triethylamine	1.88	76.4134

#### Results of PMT and vPvM assessment

PMT	Р	Μ	Т	vPvM	vP	٧M
No	No	No	No	No	No	No
No	No	No	No	No	No	No
No	No	No	No	No	No	No
No	No	No	No	No	No	No
No	No	No	No	No	No	No
No	No	No	No	No	No	No
No	No	No	No	No	No	No
	No No No No No	No No No No No No No No No No 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 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	No	No	No	No	No	No	No
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	No	No	No	No	No	No	No
Triethylamine	No	No	No	No	No	No	No
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No

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

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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- 4-piperidyl sebacate	No	No	No	No	No	No	No
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	No	No	No	No	No	No	No
Triethylamine	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.

Conclusion/Summary [Product]

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

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

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

13.1 Waste treatment methods	
Product	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
European waste catalogue (EWC)	: 080112
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	<ul> <li>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.</li> <li>Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.</li> </ul>

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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		%	<b>Designation</b> [Usage]			
TEKNODUR AQUA 3393-23		≥90	3			
Labelling	:	1				
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 applicab	le.				
Ozone depleting substance	<u>s (EU 2024/590</u>	<u>))</u>				
Not listed.						
Prior Informed Consent (Pl	<u>C) (649/2012/EU</u>	<u>(L</u>				
Not listed.						
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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 Directive.

<u>ational regulations</u> Austria			
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>		1
Ingredient name		Annex I Section A	Annex I Section B
titanium dioxide		Listed	-
MAL-code	: 00-1		
Protection based on MAL	: According to the regulations on stipulations apply to the use of		
	<b>General:</b> Gloves must be worn for coveralls/protective clothing must be clothes do not adequately protect s shield must be worn in work involv case, other recommended use of e	be worn when soiling is so kin against contact with th ing spattering if a full mask	great that regular wor e product. A face t is not required. In thi
	In all spraying operations in which respiratory protection and arm prot appropriate or as instructed.		
	MAL-code: 00-1 <b>Application:</b> When spraying in ex spray zone.	isting* spray booths, if the	operator is outside th
	- Arm protectors must be worn.		
	During all spraying where atomisat operator is inside the spray zone a or booth.		
	- Full mask with combined filter, co	veralls and hood must be	worn.
	<b>Drying:</b> Items for drying/drying ov rack trolleys, etc, must be equippe fumes from wet items from passing	d with a mechanical exhau	ist system to prevent
	<b>Polishing:</b> When polishing treated When machine grinding, eye prote worn.		
	Caution The regulations contain of	other stipulations in additio	n to the above.
	*See Regulations.		

List of undesirable substances	:	Not listed	
Carcinogenic waste		Waste containers must be labeled: Contains a substance or substances r by Danish working environment legislation on cancer risks.	egulated
Finland			
France			
Social Security Code, Articles L 461-1 to L 461-7		Z-Butoxyethanol RG 84 Triethylamine RG 49, RG 49bis	
Reinforced medical surveillance		Act of July 11, 1977 determining the list of activities which require reinforc medical surveillance: not applicable	ed
<u>Germany</u>			
Storage class (TRGS 510)	:	10	
Hazardous incident ordina	nce		
This product is not controlled	d uno	ler the Germany Hazardous Incident Ordinance.	
Hazard class for water	: :	2	
Technical instruction on a	ir qı	ality control (TA Luft)	
Number [Class]		Description	%
<b>5</b> .2.1		Total dust	34.3
5.2.5		Organic substances	17.7
5.2.5 [l]		Organic substances	3.6
AOX		The product contains organically bound halogens and can contribute to th /alue in waste water.	e AOX
<u>Italy</u>			
D.Lgs. 152/06	: 1	Not determined.	
Netherlands			
Water Discharge Policy (ABM)		A(2) Toxic for aquatic organisms, may have long-term hazardous effects i environment. Decontamination effort: A	n aquati
<u>Norway</u>			
Product registration number	:	323593	
<u>Sweden</u>			
Switzerland			
VOC content	:	Exempt.	
nternational regulations			
hemical Weapon Convent	ion l	<u>ist Schedules I, II &amp; III Chemicals</u>	
Not listed.			
Iontreal Protocol Not listed.			
		istant Organic Bollutante	
tockholm Convention on F Not listed.	<u>ers</u>	istent organic Poliutants	
totterdam Convention on F	<b>Prior</b>	Informed Consent (PIC)	
Not listed.			
INECE Aarhus Protocol on Not listed.	PO	Ps and Heavy Metals	

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

Indicates information that has changed from previously issued version.

	nde changed hem provideler ledded vereien.
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 vPvB = Very Persistent and Very Bioaccumulative</li> </ul>

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

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

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

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 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. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
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 SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Data of issue / Data a	

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#### Notice to reader

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

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