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 3

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, region national and international regulations.	nal,

SECTION 2: Hazards identification

Hazardous ingredients	: Contains: EO bis(benztriazolyl)phenylpropionat; Reaction mass of Bis
nazaruous ingreulents	(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate 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	:
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
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]
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 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 7.2 mg/l STOT SE 3, H335: $C \ge 1\%$	[1] [2]
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	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l	[1]
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SECTION 3: Composition/information on ingredients

Aquatia Chronia 1	Skin Corr 1C
Aquatic Chronic 1,	Skin Corr. 1C,
H410	H314: C ≥ 0.6%
EUH071	Eye Dam. 1, H318:
	C ≥ 0.6%
	Eye Irrit. 2, H319:
	$0.06\% \le C < 0.6\%$
	Skin Sens. 1, H317:
	C ≥ 0.0015%
	M [Acute] = 100
	M [Chronic] = 100
See Section 16 for	
the full text of the H	
statements declared	
above.	

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid n	easures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness

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SECTION 4: First aid	d measures
Ingestion	: No specific data.
4.3 Indication of any immed	iate 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: 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	from the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
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.

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	СС	ontainment 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 contai	iner. Dispose of via a
	licensed waste disposal contractor.	

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SECTION 6: Accidental release measures

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.

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 nar	ne	Exposure limit values				
 Butoxyethanol Regulation on Limit Values - MAC (Austria, 4/ through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. PEAK 30 minutes: 40 ppm 4 times per shift. PEAK 30 minutes: 200 mg/m³ 4 times per shift. 				shift.	Absoi	bed
Triethylamine		Regulation on Limit Values - MAC (Austria, 4/2021) TWA 8 hours: 2 ppm. TWA 8 hours: 8.4 mg/m ³ . PEAK 15 minutes: 3 ppm 4 times per shift.				
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reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	PEAK 15 minutes: 12.6 mg/m ³ 4 times per shift. Regulation on Limit Values - MAC (Austria, 4/2021) [5-Chlor- 2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-di- hydroisothiazol-3-on (Gemisch im Verhältnis 3:1)] Skin sensitiser. TWA 8 hours: 0.05 mg/m ³ .
2-Butoxyethanol	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .
Triethylamine	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 0.5 ppm. TWA 8 hours: 2.07 mg/m ³ . STEL 15 minutes: 1 ppm. STEL 15 minutes: 4.14 mg/m ³ .
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 ³ . Limit value 15 minutes: 246 mg/m ³ . 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 ³ . Limit value 8 hours: 8.4 mg/m ³ . 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 I (Croatia, 12/2023) Absorbed through skin. STELV 15 minutes: 246 mg/m ³ . STELV 15 minutes: 50 ppm. ELV 8 hours: 98 mg/m ³ . 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 ³ . STELV 15 minutes: 3 ppm. ELV 8 hours: 8.4 mg/m ³ . ELV 8 hours: 2 ppm.
2-Butoxyethanol	Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ . TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ .
Triethylamine	Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 3 ppm. STEL 15 minutes: 12.6 mg/m ³ . TWA 8 hours: 2 ppm. TWA 8 hours: 8.4 mg/m ³ .
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SECTION 8: Exposure c	ontrols/personal protection
2-Butoxyethanol	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 98 mg/m ³ . TWA 8 hours: 20 ppm. STEL 15 minutes: 200 mg/m ³ . 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 ³ . TWA 8 hours: 1.9 ppm. STEL 15 minutes: 12 mg/m ³ . STEL 15 minutes: 2.85 ppm.
₽-Butoxyethanol	Working Environment Authority (Denmark, 3/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 246 mg/m ³ . 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 ³ . STEL 15 minutes: 12.6 mg/m ³ . 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 ³ . TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m ³ . 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 ³ . TWA 8 hours: 2 ppm. STEL 15 minutes: 12.6 mg/m ³ . STEL 15 minutes: 3 ppm.
✓Butoxyethanol	EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .
Triethylamine	EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 2 ppm. TWA 8 hours: 8.4 mg/m ³ . STEL 15 minutes: 3 ppm. STEL 15 minutes: 12.6 mg/m ³ .
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 ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 250 mg/m ³ .
Triethylamine	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 ³ .
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∠-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 ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 246 mg/m ³ . 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 ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 4.2 mg/m ³ . 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)
₽-Butoxyethanol	 TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 49 mg/m³. PEAK 15 minutes: 98 mg/m³. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 49 mg/m³. PEAK 15 minutes: 98 mg/m³ 4 times per shift [Interval: 1 hour].
Triethylamine	 TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 4.2 mg/m³. PEAK 15 minutes: 8.4 mg/m³. TWA 8 hours: 1 ppm. PEAK 15 minutes: 2 ppm. DFG MAC-values list (Germany, 7/2023) Develop D. TWA 8 hours: 1 ml/m³. PEAK 15 minutes: 2 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 4.2 mg/m³. PEAK 15 minutes: 8.4 mg/m³ 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 2 ml/m³ 4 times per shift [Interval: 1 hour].
₽-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 ³ .
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 ³ . STEL 15 minutes: 15 ppm. STEL 15 minutes: 60 mg/m ³ .
2-Butoxyethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through skin. TWA 8 hours: 98 mg/m ³ . PEAK 15 minutes: 246 mg/m ³ . 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 ³ . PEAK 15 minutes: 12.6 mg/m ³ . PEAK 15 minutes: 3 ppm. TWA 8 hours: 2 ppm.
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SECTION 8: Exposure controls/personal protection 2-Butoxyethanol Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Absorbed through skin. STEL 15 minutes: 246 mg/m³. STEL 15 minutes: 50 ppm. TWA 8 hours: 100 mg/m³. TWA 8 hours: 20 ppm. Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Triethylamine Absorbed through skin. STEL 15 minutes: 12.6 mg/m³. STEL 15 minutes: 3 ppm. TWA 8 hours: 8.4 mg/m³. TWA 8 hours: 2 ppm. 2-Butoxyethanol NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 20 ppm. OELV 8 hours: 98 mg/m³. OELV 15 minutes: 50 ppm. OELV 15 minutes: 246 mg/m³. Triethylamine NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 2 ppm. OELV 8 hours: 8.4 mg/m³. OELV 15 minutes: 3 ppm. OELV 15 minutes: 12.6 mg/m³. 2-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/m³. Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 246 mg/m³. Legislative Decree No. 81/2008. Title IX. Protection from Triethylamine chemical agents, carcinogens and mutagens (Italy, 6/2020) Absorbed through skin. Limit value 8 hours: 2 ppm. Limit value 8 hours: 8.4 mg/m³. Short Term 15 minutes: 3 ppm. Short Term 15 minutes: 12.6 mg/m³. 2-Butoxyethanol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) Absorbed through skin. TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) Triethylamine STEL 15 minutes: 3 ppm. TWA 8 hours: 8.4 mg/m³. STEL 15 minutes: 12.6 mg/m³. TWA 8 hours: 2 ppm. Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) 2-Butoxyethanol Absorbed through skin. TWA 8 hours: 50 mg/m³. TWA 8 hours: 10 ppm. STEL 15 minutes: 100 mg/m³. STEL 15 minutes: 20 ppm.

Triethylamine

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Absorbed through skin. TWA 8 hours: 8.4 mg/m³. TWA 8 hours: 2 ppm.

STEL 15 minutes: 12.6 mg/m³. STEL 15 minutes: 3 ppm.

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2-Butoxyethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .
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 ³ . STEL 15 minutes: 3 ppm. STEL 15 minutes: 12.6 mg/m ³ .
2-Butoxyethanol	EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .
Triethylamine	EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 2 ppm. TWA 8 hours: 8.4 mg/m ³ . STEL 15 minutes: 3 ppm. STEL 15 minutes: 12.6 mg/m ³ .
2-Butoxyethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 100 mg/m ³ . STEL 15 minutes: 246 mg/m ³ . 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 ³ . STEL 15 minutes: 12.6 mg/m ³ . STEL 15 minutes: 3 ppm. TWA 8 hours: 1 ppm.
2-Butoxyethanol	FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³.
Triethylamine	FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skin. TWA 8 hours: 2 ppm. TWA 8 hours: 8 mg/m ³ .
2-Butoxyethanol	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 200 mg/m ³ .
Triethylamine	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: 3 mg/m ³ . STEL 15 minutes: 9 mg/m ³ .
2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014) A3.
Triethylamine	TWA 8 hours: 20 ppm. Portuguese Institute of Quality (Portugal, 11/2014) A4. Absorbed through skin. TWA 8 hours: 1 ppm. STEL 15 minutes: 3 ppm.
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SECTION 8: Exposure controls/personal protection				
2-Butoxyethanol	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 98 mg/m ³ . VLA 8 hours: 20 ppm. Short term 15 minutes: 246 mg/m ³ . 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 ³ . VLA 8 hours: 2 ppm. Short term 15 minutes: 12.6 mg/m ³ . 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 ³ . TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m ³ . 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 ³ . TWA 8 hours: 2 ppm. STEL 15 minutes: 12.6 mg/m ³ . STEL 15 minutes: 3 ppm.			
₽-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 ³ . TWA 8 hours: 20 ppm. KTV 15 minutes: 246 mg/m ³ 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			
Triethylamine	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) Absorbed through skin. TWA 8 hours: 8.4 mg/m ³ . TWA 8 hours: 2 ppm. KTV 15 minutes: 12.6 mg/m ³ 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].			
₽-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 ³ . STEL 15 minutes: 245 mg/m ³ . 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 ³ . STEL 15 minutes: 3 ppm. STEL 15 minutes: 12.6 mg/m ³ .			
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 ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .			
Triethylamine	Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin.			

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SECTION 8: Exposure controls/p	personal protection
	TWA 8 hours: 1 ppm. TWA 8 hours: 4.2 mg/m ³ . STEL 15 minutes: 3 ppm. STEL 15 minutes: 12.6 mg/m ³ .
2-Butoxyethanol	SUVA (Switzerland, 1/2024) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 49 mg/m ³ . STEL 15 minutes: 20 ppm. STEL 15 minutes: 98 mg/m ³ .
Triethylamine	SUVA (Switzerland, 1/2024) TWA 8 hours: 1 ppm. TWA 8 hours: 4.2 mg/m ³ . STEL 15 minutes: 2 ppm. STEL 15 minutes: 8.4 mg/m ³ .
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)	SUVA (Switzerland, 1/2024) Sensitiser. STEL 15 minutes: 0.4 mg/m ³ . Form: Inhalable fraction. TWA 8 hours: 0.2 mg/m ³ . Form: Inhalable fraction.
₽-Butoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm. STEL 15 minutes: 246 mg/m ³ . TWA 8 hours: 123 mg/m ³ .
Triethylamine	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 17 mg/m ³ . TWA 8 hours: 2 ppm. TWA 8 hours: 8 mg/m ³ . STEL 15 minutes: 4 ppm.

Biological exposure indices

Product/ingredient 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 shif at the end of the week. Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.
No exposure indices known.	
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).
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2-Butoxyethanol	DFG BEI-values list (Germany, 7/2023) Notes: danger from
	percutaneous absorption (see p. 211 and p. 228). 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. TRGS 903 - BEI Values (Germany, 2/2024) BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in
	urine]. Sampling time: end of exposure or end of shift; for long-tern exposures: at the end of shift after several shifts.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
2-Butoxyethanol	NAOSH (Ireland, 1/2011) BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end o shift - As soon as possible after exposure ceases.
No exposure indices known.	
-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.
No exposure indices known.	
No exposure indices known.	
2-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.	
₽-Butoxyethanol	SUVA (Switzerland, 1/2024) BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [i urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
✔-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.
Recommended monitoring procedures	Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessmen 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
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required.

DNELs/DMELs

Product/ingredient name

2-Butoxyethanol

Result

DNEL - General population - Long term - Oral 6.3 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Oral 26.7 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation 59 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Inhalation 98 mg/m³ Effects: Systemic

DNEL - General population - Short term - Inhalation 147 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation 246 ma/m³ Effects: Local

DNEL - General population - Short term - Inhalation 426 ma/m³ Effects: Systemic

DNEL - Workers - Short term - Inhalation 1091 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral 0.18 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation 0.31 mg/m³ Effects: Systemic

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

DNEL - Workers - Long term - Inhalation 1.27 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Dermal 1.8 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation 8.4 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation 8.4 mg/m³ Effects: Systemic

DNEL - Workers - Short term - Inhalation

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Triethylamine

Reaction mass of Bis(1,2,2,6,6-pentamethyl-

1,2,2,6,6-pentamethyl-4-piperidyl sebacate

4-piperidyl) sebacate and Methyl

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Effects: Local

DNEL - Workers - Short term - Inhalation 12.6 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Long term - Dermal 12.1 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation 0.02 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation 0.02 mg/m³ <u>Effects</u>: Local

DNEL - General population - Short term - Inhalation 0.04 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Short term - Inhalation 0.04 mg/m³ <u>Effects</u>: Local

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

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

PNECs

Not available.

8.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	s <mark>ures</mark>
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
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reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

	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

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

Ingredient name		°C	°F	Method	
water		100	212		
2-Butoxyethanol		171 to 171.5	339.8 to 340.7	IP 123-93	
Flammability	: Not ava	ilable.			
Lower and upper explosion limit	: ✔ower: 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	2°F)		
Auto-ignition temperature	÷				

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

рН	: ₮ .5 to 8.5 [Conc. (% w/w): 100%]	
Viscosity	: Not available.	
Solubility(ies) Not available.	:	
Solubility in water	: Not available.	
Partition coefficient: n-octanol/ water	: Not applicable.	
Vapour pressure	:	
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SECTION 9: Physical	14-	Den Pro -	ouro et 20°C				
Les and the second		· ·	sure at 20°C		Vapour pressu		
Ingredient name	mm Hg 17.5	kPa 2.3	Method	mm Hg	kPa	Method	
2-Butoxyethanol	0.75006	0.1					
Relative density		available.					
Density	: 1 g/						
Vapour density	-	available.					
Particle characteristics	. 1101						
Median particle size	: Not	applicable.					
9.2 Other information							
9.2.1 Information with regar	d to physic	al hazard	classes				
Explosive properties		available.					
Oxidising properties		available.					
9.2.2 Other safety character	istics						
Not applicable.							
SECTION 10: Stabilit	y and re	eactivity	,				
10.1 Reactivity	: No spec	cific test da	ta related to react	ivity available fo	r this produ	ict or its ingredient	
10.2 Chemical stability	: The pro	oduct is stat	ble.				
10.3 Possibility of hazardous reactions	: Under r	normal conc	ditions of storage a	and use, hazard	lous reactic	ons will not occur.	
10.4 Conditions to avoid	: No spe	cific data.					
10.5 Incompatible materials	: No spec	cific data.					
10.6 Hazardous decomposition products		normal conc not be prod	ditions of storage a uced.	and use, hazard	lous decom	position products	
SECTION 11: Toxicol	logical i	nformat	tion				
11.1 Information on hazard c	lasses as d	lefined in F	Regulation (EC)	lo 1272/2008			
Acute toxicity							
Product/ingredient name	0	411	Result				
Reaction mass of Bis(1,2,2,6 4-piperidyl) sebacate and Me 1,2,2,6,6-pentamethyl-4-pipe	thyl	-	Rat - Oral - LD 3230 mg/kg	50			
			Rat - Dermal - >3170 mg/kg	LD50			
Triethylamine			Rat - Oral - LD	50			

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) Rat - Oral - LD50 53 mg/kg <u>Toxic effects</u>: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration -Respiratory depression

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

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SECTION 11: Toxicological information

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	27918.7	152014.2	N/A	149.1	N/A
2-Butoxyethanol	1200	N/A	N/A	3	N/A
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	3230	N/A	N/A	N/A	N/A
Triethylamine	100	300	N/A	7.2	N/A
reaction mass of: 5-chloro-2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	53	50	N/A	0.5	N/A

Skin corrosion/irritation

Product/ingredient name Result 2-Butoxyethanol Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg Triethylamine Rabbit - Skin - Mild irritant Amount/concentration applied: 365 mg Human - Skin - Severe irritant reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and Amount/concentration applied: 0.01 % 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) **Conclusion/Summary [Product]** : Not available. Serious eye damage/eye irritation **Product/ingredient name** Result 2-Butoxyethanol **Rabbit - Eyes - Moderate irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg **Rabbit - Eyes - Severe irritant** Amount/concentration applied: 100 mg Conclusion/Summary [Product] : Not available. **Respiratory corrosion/irritation** Not available. **Conclusion/Summary [Product]** : Not available. **Respiratory or skin sensitization** Not available. Skin Conclusion/Summary [Product] : Not available. Respiratory Conclusion/Summary [Product] : Not available. **Germ cell mutagenicity**

Not available.

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Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name Triethylamine

Result STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard		
Not available.		
Information on likely routes	of	exposure_
Not available.		
Potential acute health effect	ts	
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	ysi	cal, chemical and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Delayed and immediate effe	cts	as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ects	
Not available.		
Conclusion/Summary [Pro	odu	ct] : 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.
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SECTION 11: Toxicological information

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties Not available.

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

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity **Product/ingredient name** 2-Butoxyethanol

Result

Acute - LC50 - Marine water Fish - Inland silverside - Menidia beryllina Size: 40 to 100 mm 1250000 µg/l [96 hours] Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - Crangon crangon 800000 µg/l [48 hours] Effect: 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

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]

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Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
P-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
Triethylamine	1.88	76.4134

Results of PMT and vPvM assessment

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SECTION 12: Ecological information

Product/ingredient name	PMT	Р	Μ	т	vPvM	vP	٧M
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
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

: Not available.

Conclusion/Summary

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

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

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
2-Butoxyethanol	No						
EO bis(benztriazolyl) phenylpropionat	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						
Triethylamine reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-	No No						
3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)							

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

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
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
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** : **P**he product does not meet the criteria to be considered as a PBT or vPvB.

[CLP]

SECTION 12: Ecological information

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product]

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

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment metho	ods
Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
European waste catalogue (EWC)	: 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	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	•			
	ADR/RID	ADN	IMDG	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.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments

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

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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			%	Designatio	n [Usage]			
TEKNODUR AQUA 3393-23	3		≥90	3				
Labelling	:							
Other EU regulations								
Industrial emissions (integrated pollution prevention and control) - Air	:	Not listed						
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed						
Explosive precursors	:	Not applicab	le.					
Ozone depleting substance	es	(EU 2024/590	<u>))</u>					
Not listed.								
Prior Informed Consent (PI	C)	(649/2012/E	U)					
Not listed.								
Persistent Organic Pollutan Not listed. Seveso Directive	nts	<u>i</u>						
		adar the Save	oo Dirooti	10				
This product is not controlled lational regulations	u	ider the Seve	so Directiv	e.				
Austria								
Limitation of the use of		Permitted.						
organic solvents	1	Femilieu.						
<u>Belgium</u>								
Czech Republic								
Storage code	÷	IV						
<u>Denmark</u>								
Fire class	÷	<mark>₩</mark> -1						
MAL-code	÷	0 -5						
Protection based on MAL	:				rk involving code sonal protective e	ed products, the f equipment:	ollov	win
		coveralls/pro clothes do no shield must l	otective clo ot adequat be worn in	thing must be v ely protect skin work involving	/orn when soiling is against contact wi	ult in soiling. Apror s so great that regi ith the product. A fa nask is not require equired.	ular v ace	
		respiratory p	rotection a	arm protect		he following must		
		appropriate of	or as instru	icted.				

MAL-code: 0-5

- 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, spraycabin and spray-booth type where the operator is working inside the spray zone.

- Gas filter mask and protective clothing must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, protective clothing and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

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Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

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 Work. List of undesirable

: Not listed

substances **Finland**

France		
Social Security Code,	: 2-Butoxyethanol	RG 84
Articles L 461-1 to L 461-7	Triethylamine	RG 49, RG 49bis
Reinforced medical surveillance	: Act of July 11, 1977 determining the list of activities w medical surveillance: not applicable	hich require reinforced
<u>Germany</u>		
Storage class (TRGS 510)	: 10	
Hazardous incident ordina	<u>1Ce</u>	
This product is not controlled	under the Germany Hazardous Incident Ordinance.	
Hazard class for water	: 2	

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SECTION 15: Regulatory information

Technical instruction on a	ir quality control (TA Luft)

Number [Class]	Description	%
5.2.15.2.55.2.5 [I]	Total dust Organic substances Organic substances	15.1 20.3 2.9
ΑΟΧ	: The product contains organically bound halogens a value in waste water.	nd can contribute to the AOX
<u>Italy</u>		
D.Lgs. 152/06 <u>Netherlands</u>	: Not determined.	
Water Discharge Policy (ABM)	: A(2) Toxic for aquatic organisms, may have long-te environment. Decontamination effort: A	rm hazardous effects in aquati
<u>Norway</u> Product registration number	: <mark>3</mark> 23594	
Sweden Switzerland		
Switzerland VOC content	: Exempt.	
nternational regulations		
	on List Schedules I, II & III Chemicals	
Not listed.		
<u>Aontreal Protocol</u> Not listed.		
Stockholm Convention on Not listed.	Persistent Organic Pollutants	
Rotterdam Convention on Not listed.	rior Informed Consent (PIC)	
JNECE Aarhus Protocol or Not listed.	POPs and Heavy Metals	
5.2 Chemical safety ssessment	: This product contains substances for which Chemic required.	cal Safety Assessments are sti
ECTION 16: Other	nformation	
Indicates information that	as changed from previously issued version.	
bbreviations and cronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regi	ulation [Regulation (EC) No.

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

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

Classification	Justification
) -	Calculation method Calculation method

Full text of abbreviated H statements

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SECTION 16: Other information H225 Highly flammable liquid and vapour. H301 Toxic if swallowed. H302 Harmful if swallowed. Fatal in contact with skin. H310 Toxic in contact with skin. H311 H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. Causes serious eye irritation. H319 Fatal if inhaled. H330 Toxic if inhaled. H331 May cause respiratory irritation. H335 Suspected of damaging fertility. H361f H400 Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. H410 Toxic to aquatic life with long lasting effects. H411 Harmful to aquatic life with long lasting effects. H412 Corrosive to the respiratory tract. EUH071

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
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
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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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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