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

SAFETY DATA SHEET



TEKNOCLEAR AQUA 1333-02 - All variants

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

1.1 Product identifier

Product name : TEKNOCLEAR AQUA 1333-02 - All variants

1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use: Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091. e-mail address of person : Prod-safe@teknos.com responsible for this SDS

National contact

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Sens. 1, H317

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.
Precautionary statements	
Prevention	: P280 - Wear protective gloves. P261 - Avoid breathing vapour.
Response	 P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. 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, regional, national and international regulations.
Hazardous ingredients	: Contains: 2,4,7,9-tetramethyl-5-decyne-4,7-diol; adipohydrazide 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)

SECTION 2: Hazards identification

	identification
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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Dipropyleneglycolmethylether	REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8	≤5	Not classified.	-	[2]
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	REACH #: 01-2119954390-39 EC: 204-809-1 CAS: 126-86-3	≤0.3	Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤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]
adipohydrazide	REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8	≤0.3	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[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	<0.0025	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]
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SECTION 3: Composition/information on ingredients 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

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

SECTION 4: First aid measures

4.1 Description of first aid n	neasures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptomsEye contact: No specific data.Inhalation: No specific data.Skin contact: Adverse symptoms may include the following:
irritation
rednessIngestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

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SECTION 5: Firefighting measures

CECTION 0. Threngh	Incubality	
5.1 Extinguishing media		
Suitable extinguishing media	Ise an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	lone known.	
5.2 Special hazards arising	he substance or mixture	
Hazards from the substance or mixture	n a fire or if heated, a pressure increase will occur and the container may b	ourst.
Hazardous combustion products	Decomposition products may include the following materials: arbon dioxide arbon monoxide itrogen 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 intere is a fire. No action shall be taken involving any personal risk or witho uitable training.	
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contain reathing apparatus (SCBA) with a full face-piece operated in positive pres node. Clothing for fire-fighters (including helmets, protective boots and glo onforming to European standard EN 469 will provide a basic level of prote hemical incidents.	sure oves)

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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).
6.3 Methods and material for o	co	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the 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. 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 name	Exposure limit values
Dipropyleneglycolmethylether	Regulation on Limit Values - MAC (Austria, 4/2021) [Dipropylenglykolmonomethylether (Isomerengemisch)] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 307 mg/m ³ . CEIL 5 minutes: 100 ppm 8 times per shift. CEIL 5 minutes: 614 mg/m ³ 8 times per shift.
2-Butoxyethanol	 Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed 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.
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 ³ .
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Dipropyleneglycolmethylether	Limit values (Belgium, 12/2023) [Dipropyleenglycolmonomethylether] Absorbed through skin. TWA 8 hours: 50 ppm.
2-Butoxyethanol	TWA 8 hours: 308 mg/m ³ . 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 .
Dipropyleneglycolmethylether	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [2- (Methoxymethyletoxy)propanol] Absorbed through skin. Limit value 8 hours: 308 mg/m ³ . Limit value 8 hours: 50 ppm.
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.
Dipropyleneglycolmethylether	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex (Croatia, 12/2023) [(2-metoksimetiletoksi)-propanol] Absorbed through skin. ELV 8 hours: 308 mg/m ³ . ELV 8 hours: 50 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 ³ . STELV 15 minutes: 50 ppm. ELV 8 hours: 98 mg/m ³ . ELV 8 hours: 20 ppm.
Dipropyleneglycolmethylether	Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m ³ .
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 .
Dipropyleneglycolmethylether	Government regulation of Czech Republic PEL/NPK-P (Czec Republic, 12/2023) [(2-methoxymethylethoxy)propanol] Absorbed through skin. TWA 8 hours: 270 mg/m ³ . TWA 8 hours: 43.8 ppm. STEL 15 minutes: 550 mg/m ³ . STEL 15 minutes: 89.3 ppm.
2-Butoxyethanol	Government regulation of Czech Republic PEL/NPK-P (Czec 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.

Working Environment Authority (Denmark, 3/2024) [dipropylenglycolmethylether] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 309 mg/m ³ . STEL 15 minutes: 618 mg/m ³ . STEL 15 minutes: 100 ppm.
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.
Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [dipropüleenglükooli monometüüleeter] Absorbed through skin. TWA 8 hours: 308 mg/m ³ . TWA 8 hours: 50 ppm.
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.
EU OEL (Europe, 1/2022) [(2-Methoxymethylethoxy)-propano Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m ³ .
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 .
Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [(2-Metoksimetyylietoksi)-propanoli] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 310 mg/m ³ .
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 .
Ministry of Labor (France, 6/2024) [(2-méthoxyméthyléthoxy) propanol] Absorbed through skin. TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 308 mg/m ³ . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
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)

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SECTION 8: Exposure of	controls/	personal protection
Dipropyleneglycolmethylether		TRGS 900 OEL (Germany, 6/2024) [(2-Methoxymethylethoxy) propanol]TWA 8 hours: 310 mg/m³.PEAK 15 minutes: 310 mg/m³.TWA 8 hours: 50 ppm.PEAK 15 minutes: 50 ppm.DFG MAC-values list (Germany, 7/2023) [Dipropylene glycol monomethyl ether] Develop D.TWA 8 hours: 50 ppm.PEAK 15 minutes: 50 ppm.4 times per shift [Interval: 1 hour].TWA 8 hours: 310 mg/m³.PEAK 15 minutes: 310 mg/m³ 4 times per shift [Interval: 1 hour].
2-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].
Dipropyleneglycolmethylether		Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) [μεθοξυμεθυλ-αιθοξυ-προπανόλη, 2-] Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 600 mg/m ³ . STEL 15 minutes: 150 ppm. STEL 15 minutes: 900 mg/m ³ .
2-Butoxyethanol		Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m ³ .
Dipropyleneglycolmethylether		5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [(2-metoximetiletoxi)-propanol] TWA 8 hours: 308 mg/m ³ . TWA 8 hours: 50 ppm.
2-Butoxyethanol		 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through skin. TWA 8 hours: 98 mg/m³. PEAK 15 minutes: 246 mg/m³. PEAK 15 minutes: 50 ppm. TWA 8 hours: 20 ppm.
Dipropyleneglycolmethylether		Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) [Díprópýlenglýkólmetýleter] Absorbed through skin. TWA 8 hours: 300 mg/m ³ . TWA 8 hours: 50 ppm.
2-Butoxyethanol		Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Absorbed through skin. STEL 15 minutes: 246 mg/m ³ . STEL 15 minutes: 50 ppm. TWA 8 hours: 100 mg/m ³ . TWA 8 hours: 20 ppm.
Dipropyleneglycolmethylether		NAOSH (Ireland, 4/2024) [(2-methoxymethylethoxy)-1-propanol Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 308 mg/m ³ .
2-Butoxyethanol		NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 20 ppm.
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	OELV 8 hours: 98 mg/m ³ . OELV 15 minutes: 50 ppm. OELV 15 minutes: 246 mg/m ³ .
Dipropyleneglycolmethylether	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) Absorbed through skin. Limit value 8 hours: 50 ppm. Limit value 8 hours: 308 mg/m ³ .
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/m ³ . Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 246 mg/m ³ .
Dipropyleneglycolmethylether	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) [Metoksipropoksi propanols] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m ³ .
2-Butoxyethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) Absorbed through skin. TWA 8 hours: 98 mg/m ³ . TWA 8 hours: 20 ppm. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ .
Dipropyleneglycolmethylether	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Absorbed through skin. TWA 8 hours: 308 mg/m ³ . TWA 8 hours: 50 ppm. STEL 15 minutes: 450 mg/m ³ . STEL 15 minutes: 75 ppm.
2-Butoxyethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Absorbed through skin. TWA 8 hours: 50 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 100 mg/m ³ . STEL 15 minutes: 20 ppm.
Dipropyleneglycolmethylether	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [(2-méthoxyméthyléthoxy)-propanol] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 mg/m ³ .
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 .
Dipropyleneglycolmethylether	EU OEL (Europe, 1/2022) [(2-Methoxymethylethoxy)-propand Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 308 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 .

SECTION 8: Exposure controls/personal protection Ministry of Social Affairs and Employment, Legal limit values Dipropyleneglycolmethylether (Netherlands, 5/2024) [dipropyleenglycolmethylether] TWA 8 hours: 300 mg/m³. TWA 8 hours: 48.7 ppm. 2-Butoxyethanol Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 100 mg/m³. STEL 15 minutes: 246 mg/m³. TWA 8 hours: 20.4 ppm. STEL 15 minutes: 50 ppm. Dipropyleneglycolmethylether FOR-2011-12-06-1358 (Norway, 12/2022) [(2-metoksymetyletoksy)-propanol] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 300 mg/m³. FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skin. 2-Butoxyethanol TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³. Dipropyleneglycolmethylether 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) [dipropylene glycol methyl ether] Absorbed through skin. TWA 8 hours: 240 mg/m³. STEL 15 minutes: 480 mg/m³. 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 ma/m³. STEL 15 minutes: 200 mg/m³. Portuguese Institute of Quality (Portugal, 11/2014) Dipropyleneglycolmethylether [2-metoximetiletoxipropanol] Absorbed through skin. TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm. Portuguese Institute of Quality (Portugal, 11/2014) A3. 2-Butoxyethanol TWA 8 hours: 20 ppm. Dipropyleneglycolmethylether HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 308 mg/m³. VLA 8 hours: 50 ppm. HG 1218/2006, Annex 1, with subsequent modifications and 2-Butoxyethanol additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 98 mg/m³. VLA 8 hours: 20 ppm. Short term 15 minutes: 246 mg/m³. Short term 15 minutes: 50 ppm. Government regulation SR c. 355/2006 (Slovakia, 7/2024) Dipropyleneglycolmethylether [2-metoxymetyl-etoxypropanol] Absorbed through skin, Inhalation sensitiser. TWA 8 hours: 308 mg/m³ (2-methoxymetyl-ethoxypropanol). TWA 8 hours: 50 ppm (2-methoxymetyl-ethoxypropanol). 2-Butoxyethanol Government regulation SR c. 355/2006 (Slovakia, 7/2024) Absorbed through skin, Inhalation sensitiser. TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m³. STEL 15 minutes: 50 ppm.

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exposure events at this concentration must be at least 00 minutes 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/m². TWA 8 hours: 92 oppn. TWA 8 hours: 94 mg/m². Dipropyleneglycolmethylether National institute of occupational safety and health (Spain, 1/2024) (fetr metilice od dipropilenglicol] Absorbed through skin. TWA 8 hours: 90 ppn. TWA 8 hours: 90 ppn. 2-Butoxyethanol National institute of occupational safety and health (Spain, 1/2024) (fetr metilice od dipropilenglicol] Absorbed through skin. TWA 8 hours: 90 ppn. TWA 8 hours: 90 ppm. 2-Butoxyethanol National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 90 ppm. TWA 8 hours: 90 ppm. Dipropyleneglycolmethylether Work environment authority Regulation 2018:1 (Sweden, 11/2022) (dipropyleng glycol monomethyl ether] Absorbed through skin. TWA 8 hours: 50 ppm. STEL 15 minutes: 30 ppm. Dipropyleneglycolmethylether Work environment authority Regulation 2018:1 (Sweden, 11/2022) (Absorbed through skin. TWA 8 hours: 50 ppm. STEL 15 minutes: 50 ppm. 2-Butoxyethanol STEL 15 minutes: 50 ppm. Dipropylenegly	Dipropyleneglycolmethylether	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) [(2-metoksimetiletoksi)propanol] Absorbed through skin.TWA 8 hours: 308 mg/m³. TWA 8 hours: 50 ppm. KTV 15 minutes: 50 ppm 4 times per shift [time between two
exposure to chemical substances at work (Slovenia, 4/2024) Absorbed through skin. TWA 8 hours: 98 mg/m ³ . TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . TWA 8 hours: 20 ppm. KTV 15 minutes: 20 ppm. KTV 15 minutes: 20 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes KTV 15 minutes: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes KTV 15 minutes: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes KTV 38 hours: 50 ppm. 2-Butoxyethanol National institute of occupational safety and health (Spain, 1/2024) (betr metilico de dipropilenglicol) Absorbed through skin. TWA 8 hours: 50 ppm. Dipropyleneglycolmethylether Work environment authority Regulation 2018:1 (Sweden, 11/2022) (dipropylene glycol monomethyl ether] Absorbed through skin. TWA 8 hours: 50 ppm. Dipropyleneglycolmethylether Work environment authority Regulation 2018:1 (Sweden, 11/2022) basorbed through skin. TWA 8 hours: 50 ppm. 2-Butoxyethanol Work environment authority Regulation 2018:1 (Sweden, 11/2022) basorbed through skin. TWA 8 hours: 50 ppm. 2-Butoxyethanol Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 50 ppm. Dipropyleneglycolmethylether SUVA (Switzerland, 1/2024) [Dipropylenglykolmethylether (Isomerengemisch)] Dipropyleneglycolmethylether SUVA (Switzerland, 1/2024) Sosthed through skin. TWA 8 hours: 300 mg/m ³ . Form: vapour and aer		exposure events at this concentration must be at least 60 minutes].
1/2024) [éter metilico de dipropilenglicoi] Absorbed through ski. TWA 8 hours: 308 mg/m ³ . 2-Butoxyethanol National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 308 mg/m ³ . Dipropyleneglycolmethylether National institute of occupational safety and health (Sweden, 1/2024) Absorbed through skin. TWA 8 hours: 300 pg/m ³ . STEL 15 minutes: 245 mg/m ³ . STEL 15 minutes: 50 ppm. Dipropyleneglycolmethylether Work environment authority Regulation 2018:1 (Sweden, 1/2022) [dipropylene glycol monomethyl ether] Absorbed through skin. TWA 8 hours: 300 mg/m ³ . STEL 15 minutes: 75 ppm. STEL 15 minutes: 75 ppm. STEL 15 minutes: 75 ppm. STEL 15 minutes: 50 ppm. TWA 8 hours: 300 mg/m ³ . STEL 15 minutes: 50 ppm. TWA 8 hours: 50 ppm. TWA 8 hours: 50 ppm. STEL 15 minutes: 246 mg/m ³ . Dipropyleneglycolmethylether SUVA (Switzerland, 1/2024) [Dipropylenglykolmethylether (Isomerogenisch]) STEL 15 minutes: 50 ppm. Form: vapour and aerosols. STEL 15 minutes: 300 mg/m ³ . Form: vapour and aerosols. STEL 15 minutes: 300 mg/m ³ . Form: vapour and aerosols. TWA 8 hours: 300 mg/m ³ . Form: vapour and aerosols. TWA 8 hours: 300 mg/m ³ . Form: vapour and aerosols. TWA 8 hours: 300 mg/m ³ . Form: vapour and aerosols. STEL 15 minutes: 300 mg/m ³ . STEL 15 minutes: 300 ppm. TWA 8 hours: 49 mg/m ³ . STEL 15 minutes: 30 ppm. TWA 8 hours: 20 ppm. STEL 15 minutes: 30 ppm. TWA 8 hours: 20 ppm. STEL 15 minutes: 30 ppm. TWA 8 hours: 20 ppm. STEL 15 minutes: 30 ppm. STEL 15 minutes: 30 ppm. TWA 8 hours: 20 ppm. STEL 15 minutes: 30 ppm. STEL 15 minutes: 30 ppm. STEL 15 minutes: 30 ppm. TWA 8 hours: 20 ppm. STEL 15 minutes: 30 ppm. STEL 15 minutes: 30 ppm. STEL 15 minutes: 30 ppm. TWA 8 hours: 20 ppm. STEL 15 minutes: 50 ppm. <td>2-Butoxyethanol</td> <td> exposure to chemical substances at work (Slovenia, 4/2024) Absorbed through skin. TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm. KTV 15 minutes: 246 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. </td>	2-Butoxyethanol	 exposure to chemical substances at work (Slovenia, 4/2024) Absorbed through skin. TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm. KTV 15 minutes: 246 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].
1/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 245 mg/m ² . STEL 15 minutes: 245 mg/m ² . STEL 15 minutes: 50 ppm. Work environment authority Regulation 2018:1 (Sweden, 11/2022) [dipropylene glycol monomethyl ether] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 10 ppm. TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m ³ . STEL 15 minutes: 50 ppm. TWA 8 hours: 50 ppm. STEL 15 minutes: 50 ppm. STEL 15 minutes: 50 ppm. STEL 15 minutes: 50 ppm. Form: vapour and aerosols. STEL 15 minutes: 50 ppm. Form: vapour and aerosols. STEL 15 minutes: 300 mg/m ³ . STEL 15 minutes: 300 mg/m ³ . SUVA (Switzerland, 1/2024) Absorbed through skin. TWA 8 hours: 49 mg/m ³ . STEL 15 minutes: 20 ppm. SUVA (Switzerland, 1/2024) Absorbed through sk	Dipropyleneglycolmethylether	1/2024) [éter metílico de dipropilenglicol] Absorbed through skin. TWA 8 hours: 50 ppm.
11/2022) [dipropylene glycol monomethyl ether] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 300 mg/m³. STEL 15 minutes: 75 ppm. STEL 15 minutes: 50 ppm. TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 200 mg/m³. Form: vapour and aerosols. STEL 15 minutes: 20 ppm. STEL 15 minutes: 0.4 mg/m³. STEL 15 minutes: 0.4 mg/m³. Form: Inhalable fraction. TWA 8 hours: 0.2 mg/m³. Form: Inhalable fraction. TWA 8 hours: 2.5 ppm. TWA 8 hours: 25 ppm.	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 ³ . STEL 15 minutes: 245 mg/m ³ .
11/2022) Absorbed through skin.TWA 8 hours: 10 ppm.TWA 8 hours: 50 mg/m³.STEL 15 minutes: 50 mg/m³.STEL 15 minutes: 246 mg/m³.STEL 15 minutes: 246 mg/m³.SUVA (Switzerland, 1/2024) [Dipropylenglykolmethylether (Isomerengemisch)]STEL 15 minutes: 50 ppm. Form: vapour and aerosols. STEL 15 minutes: 300 mg/m³. Form: vapour and aerosols. TWA 8 hours: 300 mg/m³. Form: vapour and aerosols. TWA 8 hours: 300 mg/m³. Form: vapour and aerosols. SUVA (Switzerland, 1/2024) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 10 ppm. TWA 8 hours: 20 ppm. STEL 15 minutes: 20 ppm. STEL 15 minutes: 20 ppm.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)2-ButoxyethanolEH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm.	Dipropyleneglycolmethylether	11/2022) [dipropylene glycol monomethyl ether] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 300 mg/m ³ . STEL 15 minutes: 75 ppm.
 (Isomerengemisch)] STEL 15 minutes: 50 ppm. Form: vapour and aerosols. STEL 15 minutes: 300 mg/m³. Form: vapour and aerosols. TWA 8 hours: 50 ppm. Form: vapour and aerosols. TWA 8 hours: 300 mg/m³. Form: vapour and aerosols. SUVA (Switzerland, 1/2024) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 10 ppm. TWA 8 hours: 20 ppm. STEL 15 minutes: 98 mg/m³. STEL 15 minutes: 98 mg/m³. SUVA (Switzerland, 1/2024) Sensitiser. STEL 15 minutes: 0.4 mg/m³. Form: Inhalable fraction. TWA 8 hours: 0.2 mg/m³. Form: Inhalable fraction. TWA 8 hours: 0.2 mg/m³. Form: Inhalable fraction. TWA 8 hours: 50 ppm. TWA 8 hours: 50 ppm. 	2-Butoxyethanol	11/2022) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m ³ . STEL 15 minutes: 50 ppm.
TWA 8 hours: 10 ppm. TWA 8 hours: 49 mg/m³. STEL 15 minutes: 20 ppm. STEL 15 minutes: 98 mg/m³.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/m³. Form: Inhalable fraction. TWA 8 hours: 0.2 mg/m³. Form: Inhalable fraction. TWA 8 hours: 0.2 mg/m³. Form: Inhalable fraction.2-ButoxyethanolEH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm.	Dipropyleneglycolmethylether	(Isomerengemisch)] STEL 15 minutes: 50 ppm. Form: vapour and aerosols. STEL 15 minutes: 300 mg/m ³ . Form: vapour and aerosols. TWA 8 hours: 50 ppm. Form: vapour and aerosols.
 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 2-Butoxyethanol EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm. 		TWA 8 hours: 10 ppm. TWA 8 hours: 49 mg/m ³ . STEL 15 minutes: 20 ppm. STEL 15 minutes: 98 mg/m ³ .
through skin. STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm.	4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no.	STEL 15 minutes: 0.4 mg/m ³ . Form: Inhalable fraction.
TWA 8 hours: 123 mg/m ³ .		through skin. STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm. STEL 15 minutes: 246 mg/m ³ .

SECTION 8: Exposure controls/personal protection

Product/ingredient na	ne 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.	
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	 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-term exposures: at the end of 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.	
2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.
No exposure indices known.	
No exposure indices known.	
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SECTION 8: Exposure	controls/pers	sonal protection
2-Butoxyethanol	e) E ur e>	egulation on protection of workers from the risks related to xposure to chemical substances at work (Slovenia, 4/2024) BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in rine]. Sampling time: at the end of the work shift, at long-term xposure: at the end of the work shift after several consecutive orkdays.
1		ational institute of occupational safety and health (Spain, /2024) VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling me: end of shift.
No exposure indices known.		
2-Butoxyethanol	E	UVA (Switzerland, 1/2024) BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in rine]. Sampling time: immediately after exposure or after working ours. In case of long-term exposure: after more than one shift.
2-Butoxyethanol	E	H40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. ampling time: post shift.
Recommended monitoring : procedures	European Standar assessment of exp values and measu atmospheres - Gu of exposure to che (Workplace atmos for the measureme	be made to monitoring standards, such as the following: rd EN 689 (Workplace atmospheres - Guidance for the posure by inhalation to chemical agents for comparison with limit irrement strategy) European Standard EN 14042 (Workplace hide for the application and use of procedures for the assessment emical and biological agents) European Standard EN 482 spheres - General requirements for the performance of procedures ent of chemical agents) Reference to national guidance withods for the determination of hazardous substances will also be
DNELs/DMELs		
Product/ingredient name		Result
Dipropyleneglycolmethylether		DNEL - General population - Long term - Oral 36 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Long term - Inhalation 37.2 mg/m ³ Effects: Systemic
		DNEL - General population - Long term - Dermal 121 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - Workers - Long term - Dermal 283 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - Workers - Long term - Inhalation 308 mg/m ³ <u>Effects</u> : Systemic
2,4,7,9-tetramethyl-5-decyne-4	,7-diol	DNEL - General population - Long term - Oral 0.29 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Long term - Dermal 0.29 mg/kg bw/day <u>Effects</u> : Systemic
		DNEL - General population - Long term - Inhalation 0.505 mg/m ³ <u>Effects</u> : Systemic

SECTION 8: Exposure controls/personal protection

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

DNEL - Workers - Long term - Inhalation 2.86 mg/m³ Effects: Systemic

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

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

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

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

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

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

DNEL - General population - Short term - Inhalation 426 mg/m³ <u>Effects</u>: Systemic

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

DNEL - Workers - Long term - Inhalation 17.5 mg/m³ Effects: Systemic

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

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

DNEL - General population - Short term - Inhalation 0.04 mg/m³ Effects: 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

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adipohydrazide

2-Butoxyethanol

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) 0.11 mg/kg bw/day Effects: Systemic

PNECs

Not available.

8.2 Exposure controls					
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.				
Individual protection measured	res				
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working per Appropriate techniques should be used to remove potentially contaminated clot 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.	hing.			
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 sh be worn at all times when handling chemical products if a risk assessment indic this is necessary. Considering the parameters specified by the glove manufactor 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.	cates urer,			
	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 tas 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 I approved by a specialist before handling this product.	be			
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets t appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other impor 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 legislatio In some cases, fume scrubbers, filters or engineering modifications to the proce 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	: Clear.

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SECTION 9: Physical and c	hemical prop	oerties		
Odour : S	: Slight			
Odour threshold : N	: Not available.			
Melting point/freezing point : N	lot available.			
Initial boiling point and : boiling range				
Ingredient name	°C	°F	Method	
water	100	212		
Dipropyleneglycolmethylether	189.6	373.3	EU A.2	
Flammability : N	lot available.	I		
	ower: Not applicable lpper: Not applicable			
Flash point : Closed cup: >100°C (>212°F)				
Auto-ignition temperature :				
Ingredient name	°C	°F	Method	
2-Propanol, 1-(2-butoxy-1-methylethoxy)	194	381.2	EU A.15	
Dipropyleneglycolmethylether	207	404.6	EU A.15	
Decomposition temperature : N	lot available.			
pH : 7	.7 to 8.4 [Conc. (%	w/w): 100%]		
Viscosity : N	lot available.			
Solubility(ies) :				
Not available.				
Solubility in water : N	lot available.			
Partition coefficient: n-octanol/ : N water	lot applicable.			
Vapour pressure :				

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
2-Propanol, 1-(2-butoxy- 1-methylethoxy)	0.045	0.006				
Relative density	: Not	available.	ł			
Density	: 1 g/	′cm³				
Vanour density	• Not available					

vapour acrisity	
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.

Oxidising properties : Not available.

9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stabilit	y and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: No specific data.
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Product/ingredient name

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

Result

Rat - Oral - LD50 53 mg/kg <u>Toxic effects</u>: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration -Respiratory depression

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
TEKNOCLEAR AQUA 1333-02 2-Butoxyethanol 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)	N/A 1200 53	N/A N/A 50	N/A N/A N/A	1648.4 3 0.5	N/A N/A N/A

Skin corrosion/irritation

Product/ingredient name

Dipropyleneglycolmethylether

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

2-Butoxyethanol

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)

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Result

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

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

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

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

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SECTION 11: Toxicological informat	ion
Product/ingredient name	Result
Dipropyleneglycolmethylether	Human - Eyes - Mild irritant Amount/concentration applied: 8 mg
	Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
2,4,7,9-tetramethyl-5-decyne-4,7-diol	Rabbit - Eyes - Severe irritant Amount/concentration applied: 0.1 MI
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 availabl	e.
Respiratory corrosion/irritation Not available.	
Conclusion/Summary [Product] : Not available	e.
Respiratory or skin sensitization Not available.	
Skin Conclusion/Summary [Product] : Not available	e.
Respiratory Conclusion/Summary [Product] : Not available	e.
Germ cell mutagenicity Not available.	
Conclusion/Summary [Product] : Not available	e.
Carcinogenicity Not available.	
Conclusion/Summary [Product] : Not availabl	e.
Reproductive toxicity Not available.	
Conclusion/Summary [Product] : Not available	e.
Specific target organ toxicity (single exposure) Not available.	
Specific target organ toxicity (repeated exposure) Not available.	2

SECTION 11: Toxicological information

SECTION 11: TOXICOI	oć	Jical Information
Aspiration hazard		
Not available.		
Information on likely routes	of	<u>exposure</u>
Not available.		
Potential acute health effect	S	
Eye contact	1	No known significant effects or critical hazards.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	May cause an allergic skin reaction.
Ingestion	1	No known significant effects or critical hazards.
Symptoms related to the ph	ysi	cal, chemical and toxicological characteristics
Eye contact	1	No specific data.
Inhalation	1	No specific data.
Skin contact	-	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Delayed and immediate effe	<u>cts</u>	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	1	Not available.
Potential chronic health effe	octs	<u>è</u>
Not available.		
Conclusion/Summary [Pro	du	ct] : Not available.
General	1	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	1	No known significant effects or critical hazards.
Mutagenicity	1	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.
11.2 Information on other haz 11.2.1 Endocrine disrupting Not available.		
Conclusion/Summary [Pro	odu	ct] : 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

Result

Product/ingredient name 2,4,7,9-tetramethyl-5-decyne-4,7-diol

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

EC50

Daphnia - *Daphnia magna* 91 mg/l [48 hours]

2-Butoxyethanol Acute - LC50 - Marine water

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

Acute - LC50 - Marine water

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

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Dipropyleneglycolmethylether	0.004	-	Low
2-Butoxyethanol	0.81		Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
2,4,7,9-tetramethyl-5-decyne-4,7-diol	1.92	83.8929
2-Butoxyethanol	1.83	67.3685
adipohydrazide	1.74	55.2165

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	М	Т	vPvM	vP	٧M
Dipropyleneglycolmethylether	No	No	No	No	No	No	No
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
adipohydrazide	No	No	No	No	No	No	No
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No
Mobility	: Not av	ailable.			•		

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
Dipropyleneglycolmethylether	No	No	No	No	No	No	No
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
adipohydrazide	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-	No	No	No	No	No	No	No
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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
Dipropyleneglycolmethylether	No	No	No	No	No	No	No
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
adipohydrazide	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	on/Summary : The product does not meet the criteria to be considered as a PBT or vPvB.						

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

12.6 Endocrine disrupting properties

Not available.

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Conclusion/Summary [Product]
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: The product does not meet the criteria to be considered as having endocrine 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, 200128
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

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

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

14.6 Special precautions for user

: **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 <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Product/ingredient name		Designation [Usage]	
TEKNOCLEAR AQUA 1333-02 ≥90		3	
Labelling :			
Other EU regulations			
Industrial emissions : No (integrated pollution prevention and control) - Air	t listed		
Industrial emissions : No (integrated pollution prevention and control) - Water	t listed		
Explosive precursors : No	t applicable.		
Ozone depleting substances (EU	<u>2024/590)</u>		
Not listed.			
Prior Informed Consent (PIC) (64	<u>9/2012/EU)</u>		
Not listed.			

SECTION 15: Regulatory information

Persistent	Organic	Pollutants
Not listed.		

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations		
<u>Austria</u>		
Limitation of the use of organic solvents	1	Permitted.
<u>Belgium</u>		
Czech Republic		
Storage code	:	IV
<u>Denmark</u>		
Fire class	:	IV-1
MAL-code	:	0-1
Protection based on MAL	:	According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:
		General: Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.
		In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 0-1

Application: When spraying in existing* spray booths, if the operator is outside the spray zone.

- Arm protectors 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 must be worn.

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

- Full mask with combined filter, coveralls and hood must be worn.

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.

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

*See Regulations.

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ECTION 15: Regula		-	
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 substances	:	Not listed	
Finland			
France			
Social Security Code, Articles L 461-1 to L 461-7		Dipropyleneglycolmethylether RG 84 2-Butoxyethanol RG 84	
Reinforced medical surveillance		Act of July 11, 1977 determining the list of activities which require re medical surveillance: not applicable	sinforced
<u>Germany</u>			
Storage class (TRGS 510)	:	10	
Hazardous incident ordina	nce		
This product is not controlled	d un	der the Germany Hazardous Incident Ordinance.	
Hazard class for water	:	2	
Technical instruction on a	ir q	uality control (TA Luft)	
Number [Class]		Description	%
5.2.1		Total dust	31.8
5.2.5		Organic substances	6.1
5.2.5 [l]		Organic substances	3.8
ΑΟΧ		The product contains organically bound halogens and can contribut value in waste water.	e to the AOX
<u>Italy</u>			
D.Lgs. 152/06	:	Not determined.	
Netherlands			
Water Discharge Policy (ABM)		A(4) Low hazard for aquatic organisms, may have long-term hazard aquatic environment. Decontamination effort: A	lous effects in
<u>Norway</u>			
Product registration number	:	671733	
<u>Sweden</u>			
Switzerland			
VOC content	:	VOC (w/w): 3.4%	
nternational regulations			
Chemical Weapon Conventi	ion	List Schedules I, II & III Chemicals	
Not listed.			
Montreal Protocol			
Not listed.			
Stockholm Convention on F	Pers	istent Organic Pollutants	
Not listed.			
Rotterdam Convention on P	rio	Informed Consent (PIC)	
Not listed.			
JNECE Aarhus Protocol on	PO	Ps and Heavy Metals	
Not listed.			
5.2 Chemical safety ssessment		This product contains substances for which Chemical Safety Asses required.	sments are still

:10/04/2025

SECTION 16: Other information

Indicates information that has changed from previously issued version.

/ maleatee mematem anat	las changed nom providely located version.
Abbreviations and acronyms	 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
Due and the stand for shorten fire	a lossification according to Demulation (EQ) No. 4070/0000 (OLD/OLD)

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

Classification	Justification	
Skin Sens. 1, H317	Calculation method	

Full text of abbreviated H statements

H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H310	Fatal in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H330	Fatal if inhaled.	
H331	Toxic if inhaled.	
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
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
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
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Notice to reader

SECTION 16: Other information

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

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