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

SAFETY DATA SHEET



DRYWOOD OPTIFINISH TR SG - BASE T

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

1.1 Product identifier

Product name : DRYWOOD OPTIFINISH TR SG - BASE T

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 Hazard statements	:Warning :H317 - May cause an allergic skin reaction.
Precautionary statements	
Prevention	: P280 - Wear protective gloves. P261 - Avoid breathing vapour.
Response	 ▶302 + 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: EO bis(benztriazolyl)phenylpropionat; adipohydrazide; 1,2-benzisothiazol-3 (2H)-one and 2-methyl-2H-isothiazol-3-one

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SECTION 2: Hazards identification

Supplemental label elements	:	Contains biocidal products for in-can preservation: BIT and 2,2'-dithiobis[N- methylbenzamide] and Bronopol and MIT and OIT and MBIT.
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 : None known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures Product/ingredient name	: Mixture	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
2-(2-butoxyethoxy)ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	≤3	Eye Irrit. 2, H319	-	[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]
adipohydrazide	REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8	<1	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	<1	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]
1,2-benzisothiazol-3(2H)- one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.036	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = 0.21 mg/l Skin Sens. 1, H317: C $\ge 0.036\%$ M [Acute] = 1 M [Chronic] = 1	[1]
2-methyl-2H-isothiazol- 3-one	EC: 220-239-6 CAS: 2682-20-4 Index: 613-326-00-9	<0.0015	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.11 mg/l	[1]
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			Aquatic Chronic 1, H410 EUH071	Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 10 M [Chronic] = 1	
2-Octyl-2H-isothiazol-3-one	EC: 247-761-7 CAS: 26530-20-1 Index: 613-112-00-5	<0.001	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 125 mg/kg ATE [Dermal] = 311 mg/kg ATE [Inhalation (dusts and mists)] = 0.27 mg/l Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 100 M [Chronic] = 100	[1]
			See Section 16 for the full text of the H statements declared above.		

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

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

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 <u>Over-exposure signs/symptoms</u>

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Eye contact	: No specific data.
Inhalation	No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any immedia	ate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
SECTION 5: Firefight	ing 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 fi	rom the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
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 i there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	otective 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	containment and cleaning up

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

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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 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				
2-(2-butoxyethoxy)ethanol 2-Butoxyethanol		Regulation on Limit Values - MAC (Austria, 4/2021)TWA 8 hours: 10 ppm.TWA 8 hours: 67.5 mg/m³.PEAK 15 minutes: 15 ppm 4 times per shift.PEAK 15 minutes: 101.2 mg/m³ 4 times per shift.Regulation on Limit Values - MAC (Austria, 4/2021) Absorbedthrough skin.				
ate of issue/Date of revision : 20	/03/2025	TWA 8 hours: 20 p TWA 8 hours: 98 n PEAK 30 minutes: Date of previous issue	•	shift.	5/28	
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SECTION 8: Exposure controls/personal protection PEAK 30 minutes: 200 mg/m³ 4 times per shift. 2-methyl-2H-isothiazol-3-one Regulation on Limit Values - MAC (Austria, 4/2021) [5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-dihydroisothiazol-3-on (Gemisch im Verhältnis 3:1)] Skin sensitiser. TWA 8 hours: 0.05 mg/m³. Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed 2-Octyl-2H-isothiazol-3-one through skin, Sensitiser. TWA 8 hours: 0.05 mg/m³. Form: Inhalable fraction. CEIL: 0.05 mg/m³. Form: Inhalable fraction. 2-(2-butoxyethoxy)ethanol Limit values (Belgium, 12/2023) STEL 15 minutes: 15 ppm. TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m³. STEL 15 minutes: 101.2 mg/m³. Limit values (Belgium, 12/2023) Absorbed through skin. 2-Butoxyethanol TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³. 2-(2-butoxyethoxy)ethanol Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Limit value 8 hours: 67.5 mg/m³. Limit value 15 minutes: 101.2 mg/m³. Limit value 15 minutes: 15 ppm. Limit value 8 hours: 10 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/m³. Limit value 15 minutes: 246 mg/m³. Limit value 15 minutes: 50 ppm. Limit value 8 hours: 20 ppm. 2-(2-butoxyethoxy)ethanol Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) STELV 15 minutes: 101.2 mg/m³. STELV 15 minutes: 15 ppm. ELV 8 hours: 67.5 mg/m³. ELV 8 hours: 10 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/m³. STELV 15 minutes: 50 ppm. ELV 8 hours: 98 mg/m³. ELV 8 hours: 20 ppm. 2-(2-butoxyethoxy)ethanol Department of labour inspection (Cyprus, 7/2021) STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 ma/m³. TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m³. 2-Butoxyethanol Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. Date of issue/Date of revision : 12/10/2023 : 20/03/2025 Date of previous issue Version : 2 6/28

SECTION 8: Exposure of	controls/p	ersonal protection				
2-(2-butoxyethoxy)ethanol		Government regulation of Czech Republic PEL/NPK-P (Czec Republic, 12/2023) TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m ³ . STEL 15 minutes: 15 ppm.				
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.				
2-(2-butoxyethoxy)ethanol		Working Environment Authority (Denmark, 3/2024) TWA 8 hours: 68 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101 mg/m ³ .				
2-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.				
2-(2-butoxyethoxy)ethanol		Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m ³ .				
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.				
2-(2-butoxyethoxy)ethanol		EU OEL (Europe, 1/2022) TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m ³ . STEL 15 minutes: 15 ppm.				
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 .				
₽-(2-butoxyethoxy)ethanol		Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) TWA 8 hours: 10 ppm. TWA 8 hours: 68 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 .				
2-(2-butoxyethoxy)ethanol		Ministry of Labor (France, 6/2024) STEL 15 minutes: 101.2 mg/m ³ . Notes: Indicative regulatory limit values (decree of 30-06-2004 modified) STEL 15 minutes: 15 ppm. Notes: Indicative regulatory limit values (decree of 30-06-2004 modified) TWA 8 hours: 67.5 mg/m ³ . Notes: Indicative regulatory limit values (decree of 30-06-2004 modified) TWA 8 hours: 10 ppm. Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)				
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SECTION 8: Exposure cont	rols/personal protection
2-Butoxyethanol	Ministry of Labor (France, 6/2024) Absorbed through skin. TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 49 mg/m 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)
2-(2-butoxyethoxy)ethanol	 TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 67 mg/m³. PEAK 15 minutes: 100.5 mg/m³. TWA 8 hours: 10 ppm. PEAK 15 minutes: 15 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. TWA 8 hours: 67 mg/m³. PEAK 15 minutes: 100.5 mg/m³ 4 times per shift [Interval: 1 hour]. TWA 8 hours: 10 ppm. PEAK 15 minutes: 15 ppm 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].
1,2-benzisothiazol-3(2H)-one 2-methyl-2H-isothiazol-3-one 2-Octyl-2H-isothiazol-3-one	 DFG MAC-values list (Germany, 7/2023) Skin sensitiser. DFG MAC-values list (Germany, 7/2023) Skin sensitiser. TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 0.05 mg/m³. Form: Inhalable fraction. PEAK 15 minutes: 0.1 mg/m³. Form: Inhalable fraction. DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin , Skin sensitiser. TWA 8 hours: 0.05 mg/m³. Form: inhalable fraction. DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin , Skin sensitiser. TWA 8 hours: 0.05 mg/m³. Form: inhalable fraction. PEAK 15 minutes: 0.1 mg/m³ 4 times per shift [Interval: 1 hour]. Form: inhalable fraction.
2-(2-butoxyethoxy)ethanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) STEL 15 minutes: 101.2 mg/m ³ . STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm.
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 .
2-(2-butoxyethoxy)ethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) TWA 8 hours: 67.5 mg/m ³ . PEAK 15 minutes: 101.2 mg/m ³ . PEAK 15 minutes: 15 ppm. TWA 8 hours: 10 ppm.
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.
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SECTION 8: Exposure con	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023)
	STEL 15 minutes: 101.2 mg/m ³ . STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 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.
(2-butoxyethoxy)ethanol	 NAOSH (Ireland, 4/2024) Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 10 ppm. OELV 15 minutes: 101.2 mg/m³. OELV 8 hours: 67.5 mg/m³. OELV 15 minutes: 15 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.
2-(2-butoxyethoxy)ethanol	Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) Limit value 8 hours: 10 ppm. Limit value 8 hours: 67.5 mg/m ³ . Short Term 15 minutes: 15 ppm. Short Term 15 minutes: 101.2 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 .
(2-butoxyethoxy)ethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) STEL 15 minutes: 101.2 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 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 .
2-(2-butoxyethoxy)ethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m ³ . STEL 15 minutes: 15 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.
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SECTION 8: Exposure controls/personal protection				
2-(2-butoxyethoxy)ethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m ³ . TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 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 .			
₽-(2-butoxyethoxy)ethanol	EU OEL (Europe, 1/2022) TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m ³ . STEL 15 minutes: 15 ppm.			
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 .			
₽-(2-butoxyethoxy)ethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 50 mg/m ³ . STEL 15 minutes: 100 mg/m ³ . TWA 8 hours: 7.4 ppm. STEL 15 minutes: 14.8 ppm.			
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.			
2-(2-butoxyethoxy)ethanol	FOR-2011-12-06-1358 (Norway, 12/2022) TWA 8 hours: 10 ppm. TWA 8 hours: 68 mg/m³.			
2-Butoxyethanol	FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m ³ .			
2-(2-butoxyethoxy)ethanol	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) TWA 8 hours: 67 mg/m ³ . STEL 15 minutes: 100 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 .			
2-(2-butoxyethoxy)ethanol2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014) TWA 8 hours: 10 ppm. Form: Inhalable fraction and vapor. Portuguese Institute of Quality (Portugal, 11/2014) A3. TWA 8 hours: 20 ppm.			

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2-(2-butoxyethoxy)ethanol	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) VLA 8 hours: 67.5 mg/m ³ . Short term 15 minutes: 101.2 mg/m ³ . Short term 15 minutes: 15 ppm. VLA 8 hours: 10 ppm.
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.
2-(2-butoxyethoxy)ethanol	Government regulation SR c. 355/2006 (Slovakia, 7/2024) Inhalation sensitiser. TWA 8 hours: 67.5 mg/m ³ . STEL 15 minutes: 101.2 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 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.
2 -(2-butoxyethoxy)ethanol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm. KTV 15 minutes: 101.2 mg/m ³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 15 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 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/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 exposure events at this concentration must be at least 60 minutes].
2-Octyl-2H-isothiazol-3-one	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: 0.05 mg/m ³ . Form: Inhalable fraction. KTV 15 minutes: 0.1 mg/m ³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. Form: Inhalable fraction.
	National institute of occupational safety and health (Spain, 1/2024) TWA 8 hours: 67.5 mg/m ³ . TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m ³ .
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 . STEL 15 minutes: 50 ppm.
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2-(2-butoxyethoxy)ethanol	Work environment authority Regulation 2018:1 (Sweden,
	11/2022)
	TWA 8 hours: 10 ppm.
	TWA 8 hours: 68 mg/m ³ .
	STEL 15 minutes: 15 ppm.
	STEL 15 minutes: 101 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 .
-(2-butoxyethoxy)ethanol	SUVA (Switzerland, 1/2024)
	TWA 8 hours: 67 mg/m ³ . Form: vapour and aerosols.
	STEL 15 minutes: 101 mg/m ³ . Form: vapour and aerosols.
	STEL 15 minutes: 15 ppm. Form: vapour and aerosols.
	TWA 8 hours: 10 ppm. Form: vapour and aerosols.
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 .
2-Octyl-2H-isothiazol-3-one	SUVA (Switzerland, 1/2024) Absorbed through skin, Sensitise
-	TWA 8 hours: 0.05 mg/m ³ . Form: Inhalable fraction.
	STEL 15 minutes: 0.1 mg/m ³ . Form: Inhalable fraction.
2-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020)
	TWA 8 hours: 10 ppm.
	TWA 8 hours: 67.5 mg/m ³ .
	STEL 15 minutes: 15 ppm.
	STEL 15 minutes: 101.2 mg/m³.
2-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 .

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 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.	
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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-ter 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 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.	
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.	
2-Butoxyethanol	SUVA (Switzerland, 1/2024)
-	BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) urine]. Sampling time: immediately after exposure or after workin hours. In case of long-term exposure: after more than one shift.
2-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.

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Recommended monitoring : procedures	Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with lir values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessme of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of proced for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also required.					ce sment cedures	
DNELs/DMELs							
Product/ingredient name		1	Result				
2-(2-butoxyethoxy)ethanol			DNEL - General 6.25 mg/kg bw/da <u>Effects</u> : Systemic	ay	.ong term	- Oral	
			DNEL - Workers 67.5 mg/m³ <u>Effects</u> : Local	- Long term -	Inhalatio	n	
			DNEL - Workers 101.2 mg/m³ <u>Effects</u> : Local	- Short term -	Inhalatio	n	
adipohydrazide			DNEL - Workers 17.5 mg/m³ Effects: Systemic	-	Inhalatio	n	
2-Butoxyethanol			DNEL - General 6.3 mg/kg bw/day <u>Effects</u> : Systemic	y	.ong term	- Oral	
			DNEL - General 26.7 mg/kg bw/da <u>Effects</u> : Systemic	ay	Short term	ı - Oral	
			DNEL - General 59 mg/m³ <u>Effects</u> : Systemic		.ong term	- Inhalation	
			DNEL - Workers 98 mg/m³ <u>Effects</u> : Systemic	-	Inhalatio	n	
			DNEL - General 147 mg/m³ <u>Effects</u> : Local	population - S	Short term	I - Inhalation	
			DNEL - Workers 246 mg/m³ <u>Effects</u> : Local	- Short term -	Inhalatio	n	
			DNEL - General 426 mg/m³ <u>Effects</u> : Systemic		Short term	I - Inhalation	
			DNEL - Workers 1091 mg/m³ <u>Effects</u> : Systemic		Inhalatio	n	
1,2-benzisothiazol-3(2H)-one			DNEL - General 0.345 mg/kg bw/o <u>Effects</u> : Systemic	day	.ong term	- Dermal	
			DNEL - Workers	- Long term -	Dermal		
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0.966 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 1.2 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Long term - Inhalation 6.81 mg/m³ <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 0.021 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation 0.021 mg/m³ Effects: Local

DNEL - General population - Long term - Oral 0.027 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Short term - Inhalation 0.043 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Short term - Inhalation 0.043 mg/m³ <u>Effects</u>: Local

DNEL - General population - Short term - Oral 0.053 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 air contaminants.	borne
Individual protection meas	<u>š</u>	
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 clocontaminated work clothing should not be allowed out of the workplace. Was contaminated clothing before reusing. Ensure that eyewash stations and safe showers are close to the workstation location.	eriod. othing. sh
Eye/face protection	Safety eyewear complying with an approved standard should be used when a assessment indicates this is necessary to avoid exposure to liquid splashes, n gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses side-shields.	nists, ,
Skin protection		

2-methyl-2H-isothiazol-3-one

SECTION 8: Exposure controls/personal 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 indicate this is necessary. Considering the parameters specified by the glove manufacture check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.		
	Recommendations : Wear suitable gloves tested to EN374.		
	> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm		
	Not recommended polyvinyl alcohol (PVA) gloves		
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. 		
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.		
	Filter type (spray application): A P		
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	: Liquid.
Colour	: 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		
Dipropylenglycoldimethylether		175	347		
Flammability	: Not ava	ilable.	I		
Lower and upper explosion limit		Not applicab Not applicab			
Flash point	: Closed	cup: >100°C	(>212°F)		
Auto-ignition temperature	:				
Ingredient name		°C	°F	Method	
propylenglycoldimethylether		165	329		
2-(2-butoxyethoxy)ethanol		210	410	DIN 51794	
Decomposition temperature	: Not available.				
pH	: 8 to 8.5 [Conc. (% w/w): 100%]				
Viscosity	: Not available.				
Solubility(ies)	÷				
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Not available.

Solubility in water	: Not available.
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Partition coefficient: n-octanol/ : Not applicable. water

Vapour pressure

	Va	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						
Dipropylenglycoldimethylether	0.52	0.069						
Relative density	: Not	available.	+	·		·		

Density	: 1 g/cm ³
Vapour density	: Not available.
Particle characteristics	

Median particle size	: Not applicable.

9.2 Other information

9.2.1 Information with regard to	physical hazard classes	
Explosive properties	: Not available.	
Oxidising properties	: Not available.	
9.2.2 Other safety characteristics		

Not applicable.

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

11.1 Information on hazard class	ses as defin	ed in Regulation (EC)	No 1272/2008			
Acute toxicity						
Product/ingredient name		Result				
2-(2-butoxyethoxy)ethanol		Rabbit - Derm	Rabbit - Dermal - LD50			
		2700 mg/kg				
				Lung, Thorax, or Respira	ation	
1,2-benzisothiazol-3(2H)-one		Rat - Oral - LE 1020 mg/kg	950			
2-methyl-2H-isothiazol-3-one		Rat - Inhalatio	on - LC50 Dusts and	d mists		
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0.11 mg/l [4 hours]

2-Octyl-2H-isothiazol-3-one

Rat - Oral - LD50

550 mg/kg

Rabbit - Dermal - LD50 690 mg/kg

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)
P RYWOOD OPTIFINISH TR SG	N/A	N/A	N/A	750.0	N/A
2-(2-butoxyethoxy)ethanol	4500	2700	N/A	N/A	N/A
2-Butoxyethanol	1200	N/A	N/A	3	N/A
1,2-benzisothiazol-3(2H)-one	450	N/A	N/A	N/A	0.21
2-methyl-2H-isothiazol-3-one	100	300	N/A	N/A	0.11
2-Octyl-2H-isothiazol-3-one	125	311	N/A	N/A	0.27

Skin corrosion/irritation	
Product/ingredient name	Result
2-Butoxyethanol	Rabbit - Skin - Mild irritant
	Amount/concentration applied: 500 mg
1,2-benzisothiazol-3(2H)-one	Human - Skin - Mild irritant
	Duration of treatment/exposure: 48 hours
	Amount/concentration applied: 5 %
Conclusion/Summary [Product] : Not availab	le.
Serious eye damage/eye irritation	
Product/ingredient name	Result
2-(2-butoxyethoxy)ethanol	Rabbit - Eyes - Moderate irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 20 mg
	Rabbit - Eyes - Severe irritant
	Amount/concentration applied: 20 mg
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
2-Octyl-2H-isothiazol-3-one	Rabbit - Eyes - Severe irritant
	Amount/concentration applied: 100 mg
Conclusion/Summary [Product] : Not availab	le.
Respiratory corrosion/irritation	
Not available.	

Conclusion/Summary [Product] : Not available.

SECTION 11: Toxicological information

Respiratory or skin sensitization Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

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) Not available.

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard Not available.			
Information on likely routes	of	exposure	
Not available.			
Potential acute health effect	S		
Eye contact	1	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	1	No specific data.	
Delayed and immediate effe	cts	as well as chronic effects from short and long-term exp	<u>oosure</u>
Short term exposure			
Potential immediate effects	:	Not available.	
Potential delayed effects	:	Not available.	
Long term exposure			
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Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
Conclusion/Summary [Pr	oduct] : Not available.
General	 Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

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-(2-butoxyethoxy)ethanol	Result Acute - LC50 - Fresh water Fish - Bluegill - <i>Lepomis macrochirus</i> <u>Size</u> : 33 to 75 mm 1300000 μg/l [96 hours] <u>Effect</u> : Mortality
2-Butoxyethanol	Acute - LC50 - Marine water Fish - Inland silverside - <i>Menidia beryllina</i> <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 - <i>Crangon</i> <i>crangon</i> 800000 μg/l [48 hours] <u>Effect</u> : Mortality
1,2-benzisothiazol-3(2H)-one	Acute - LC50 - Fresh water OECD [Fish, Acute Toxicity Test] Fish - Trout - <i>Onorhynchus Mykiss</i> 1.9 mg/l [96 hours]
	Acute - EC50 OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test] Daphnia - Daphnia - <i>Daphnia Magna</i> 3.7 mg/l [48 hours]
	Acute - EC50 - Marine water OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - <i>Skeletonema Costatum</i> 0.36 mg/l [72 hours]
	Acute - NOEC - Marine water OECD 201 [Alga, Growth Inhibition Test]
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	Algae - Algae - Skeletonema Costatum
	0.15 mg/l [72 hours]
2-methyl-2H-isothiazol-3-one	Acute - EC50 - Fresh water US EPA
	Daphnia - Water flea - <i>Daphnia magna</i>
	<u>Age</u> : <24 hours
	0.18 ppm [48 hours]
	Effect: Intoxication
	Acute - LC50 - Fresh water
	US EPA Fish - Rainbow trout,donaldson trout - Oncorhynchus mykis
	Weight: 0.73 g
	0.07 ppm [96 hours]
	Effect: Mortality
2-Octyl-2H-isothiazol-3-one	Acute - EC50 - Fresh water
	US EPA
	Daphnia - Water flea - <i>Daphnia magna</i> <u>Age</u> : <24 hours
	107 ppb [48 hours]
	Effect: Intoxication
	Acute - LC50 - Fresh water
	US EPA Fish Beinhow trout dependent trout Oncerhynobus mylyir
	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykis</i> <u>Weight</u> : 0.7 g
	47 ppb [96 hours]
	Effect: Mortality
	Chronic - NOEC - Fresh water
	US EPA
	Daphnia - Water flea - <i>Daphnia magna</i> 74 ppb [21 days]
	Effect: No Effect Coded
	Chronic - NOEC
	US EPA
	Fish - Fathead minnow - Pimephales promelas
	8.5 ppb [35 days] <u>Effect</u> : Growth
Conclusion/Summary [Product] : No	ot available.

12.2 Persistence and degradability

Product	/ingredient	name

1,2-benzisothiazol-3(2H)-one	

EU 24% [28 days]

Result

Conclusion/Summary [Product] : Not available.

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

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-(2-butoxyethoxy)ethanol	1	-	Low
2-Butoxyethanol	0.81	-	Low
1,2-benzisothiazol-3(2H)-one	-	3.2	Low
2-Octyl-2H-isothiazol-3-one	2.45	-	Low

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12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос	
2-(2-butoxyethoxy)ethanol	1.56	36.5981	
adipohydrazide	1.74	55.2165	
2-Butoxyethanol	1.83	67.3685	
1,2-benzisothiazol-3(2H)-one	1.86	73.142	
2-methyl-2H-isothiazol-3-one	1.74	54.9187	
2-Octyl-2H-isothiazol-3-one	2.85	706.605	

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	Μ	т	vPvM	vP	vM
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
	No	No	No	No	No	No	No
phenylpropionat							
adipohydrazide	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
2-methyl-2H-isothiazol-3-one	No	No	No	No	No	No	No
2-Octyl-2H-isothiazol-3-one	No	No	No	No	No	No	No

Mobility

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-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
EÒ bis(benztriazolyl)	No	No	No	No	No	No	No
phenylpropionat							
adipohydrazide	No	No	No	No	No	No	No
2-Butoxyethanol	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
2-methyl-2H-isothiazol-3-one	No	No	No	No	No	No	No
2-Octyl-2H-isothiazol-3-one	No	No	No	No	No	No	No

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

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB	
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No	
EÒ bis(benztriazolyl)	No	No	No	No	No	No	No	
phenylpropionat								
adipohydrazide	No	No	No	No	No	No	No	
2-Butoxyethanol	No	No	No	No	No	No	No	
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No	
2-methyl-2H-isothiazol-3-one	No	No	No	No	No	No	No	
2-Octyl-2H-isothiazol-3-one	No	No	No	No	No	No	No	

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

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

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product]

The product does not meet the criteria to be considered as having endocrine τ. 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

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SECTION 12: Ecological information

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment meth	nods
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	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.

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 user 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.

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

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SECTION 15: Regulatory information

None of the components are listed.

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

substances, mixtures and art	ticles		
Product/ingredient name		%	Designation [Usage]
RYWOOD OPTIFINISH TR 2-(2-butoxyethoxy)ethanol	SG	≥90 ≤3	3 55 [Consumer paint]
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 Not listed.	<u>s (EU 2024/59(</u>	<u>))</u>	
Prior Informed Consent (PIC	C) (649/2012/EI	n	
Not listed.		<u>51</u>	
Persistent Organic Pollutan Not listed.	<u>ts</u>		
Seveso Directive			
This product is not controlled	under the Seve	so Directive	
National regulations			
<u>Austria</u>			
Limitation of the use of organic solvents	: Permitted.		
<u>Belgium</u>			
Czech Republic			
Storage code	: IV		
<u>Denmark</u>			
Fire class	: 📈-1		
MAL-code	: 1-1		
Protection based on MAL	-	-	ations on work involving coded products, the following e use of personal protective equipment:
	coveralls/pro clothes do no shield must l	otective cloth ot adequatel be worn in w	e worn for all work that may result in soiling. Apron/ ing must be worn when soiling is so great that regular work y protect skin against contact with the product. A face ork involving spattering if a full mask is not required. In this ed use of eye protection is not required.
	In all spravin	q operations	in which there is return spray, respiratory protection with

In all spraying operations in which there is return spray, respiratory protection with air supply and arm protectors/apron/coveralls/protective clothing must be worn as appropriate or as instructed.

SECTION 15: Regulatory information

	MAL-code: 1-1 Application: During downtimes, cleaning and repair in closed facilities, sp booths or cabins, if there is a risk of contact with wet paint or organic solve	•
	- Air-supplied half mask must be worn.	
	When spraying in existing* spray booths, if the operator is outside the spra	ıy zone.
	- Air-supplied half-mask and arm protectors must be worn.	
	During non-atomising spraying in existing* facilities of the combined-cabin cabin and spray-booth type where the operator is working inside the spray	
	- Air-supplied half mask and eye protection must be worn.	
	During all spraying where atomisation occurs in cabins or spray booths wh operator is inside the spray zone and during spraying outside a closed faci or booth.	
	- Air-supplied half mask, eye protection, coveralls and hood must be worn.	
	Drying: Items for drying/drying ovens that are temporarily placed on such rack trolleys, etc, must be equipped with a mechanical exhaust system to place from wet items from passing through workers' inhalation zone.	
	Polishing: When polishing treated surfaces, a mask with dust filter must When machine grinding, eye protection must be worn. Work gloves must a worn.	
	Caution The regulations contain other stipulations in addition to the above	Э.
	*See Regulations.	
Low-boiling liquids	: This product contains low-boiling point liquids. Any respiratory protective e should be air-fed.	quipmen
Restrictions on use	: Not to be used by professional users below 18 years of age. See the Natio Working Environment Authorities Executive Order regarding Young People	
List of undesirable substances	: Not listed	
<u>Finland</u>		
<u>France</u>		
Social Security Code, Articles L 461-1 to L 461-7	: 2-(2-butoxyethoxy)ethanolRG 842-ButoxyethanolRG 84	
Reinforced medical surveillance	: Act of July 11, 1977 determining the list of activities which require reinforce medical surveillance: not applicable	эd
Germany		
Storage class (TRGS 510)	: 10	
Hazardous incident ordinal		
•	under the Germany Hazardous Incident Ordinance.	
Hazard class for water Technical instruction on ai	: 1 guality control (TA Luft)	
Number [Class]	Description	%
5 .2.1	Total dust	2.4
5.2.4 [III]	Gaseous inorganic substances	0.072
5.2.5	Organic substances	35.2
5.2.5 [I]	Organic substances	1.5
AOX	 The product contains organically bound halogens and can contribute to the value in waste water. 	
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SECTION 15: Regulatory information

<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 hazardous effects in aquatic environment. Decontamination effort: A
<u>Norway</u>	
Product registration number	: 671662
<u>Sweden</u>	
Switzerland	
VOC content	: Exempt.
International regulations	
Chemical Weapon Conven	tion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
Stockholm Convention on	Persistent Organic Pollutants
Not listed.	
Rotterdam Convention on	Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protocol or	n POPs and Heavy Metals
Not listed.	

15.2 Chemical safety	15.2	Chemi	ical	safety	/
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assessment

: Not applicable.

SECTION 16: Other information

Indicates information that has changed from previously issued 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 e e du ve une el tel deviue :	the electricities according to Degulation (EC) No. 4070/2000 [CLD/CUC]

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

SECTION 16:	Other information				
⊮ 301 T	oxic if swallowed.				
H302 H	armful if swallowed.				
H311 T	oxic in contact with skin.				
H314 C	Causes severe skin burns and eye damage.				
H315 C	auses skin irritation.				
	ay cause an allergic skin reaction.				
	auses serious eye damage.				
	auses serious eye irritation.				
	atal if inhaled.				
	oxic if inhaled.				
	ery toxic to aquatic life.				
	ery toxic to aquatic life with long lasting effects.				
	oxic to aquatic life with long lasting effects.				
EUH071 C	orrosive to the respiratory tract.				
Full text of classified	cations [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				
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1				
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2				
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1				
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B				
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2				
Skin Sens. 1	SKIN SENSITISATION - Category 1				
Skin Sens. 1A	SKIN SENSITISATION - Category 1A				
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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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