SAFETY DATA SHEET



TOTAL - All variants

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

1.1 Product identifier

: TOTAL - All variants **Product name**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use : Lacquers.

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]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable. Response : Not applicable. **Storage** : Not applicable. **Disposal** : Not applicable.

Supplemental label

elements

: Contains 1.2-benzisothiazol-3(2H)-one 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). May produce an allergic reaction.

Safety data sheet available on request. Contains biocidal products for in-can

preservation: BIT and Bronopol.

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

2.3 Other hazards

Date of issue/Date of revision : 15/02/2024 · 21/02/2023 Version : 6 1/23 Date of previous issue TOTAL - All variants Label No : 77503

SECTION 2: Hazards identification

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
2-(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]
1-Methoxy 2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
bumetrizole	EC: 223-445-4 CAS: 3896-11-5	≤0.3	Not classified.	-	[3]
1,2-benzisothiazol-3(2H)- one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.05	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	ATE [Oral] = 1020 mg/kg Skin Sens. 1, H317: C ≥ 0.05% M [Acute] = 1	[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)	CAS: 55965-84-9 Index: 613-167-00-5	<0.0015	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 53 mg/kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: $C \ge 0.6\%$ Eye Dam. 1, H318: $C \ge 0.6\%$ Eye Irrit. 2, H319: $0.06\% \le C < 0.6\%$ 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>

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

Date of issue/Date of revision : 15/02/2024 Date of previous issue : 21/02/2023 Version : 6 2/23

▼OTAL - All variants Label No : ▼7503

SECTION 4: First aid measures

4.1 Description of first aid measures

Eve contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

evelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed

> person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : No specific data. Inhalation : No specific data. Skin contact : No specific data. Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting 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 from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion

products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Date of issue/Date of revision · 15/02/2024 · 21/02/2023 Version • 6 3/23 Date of previous issue Label No : 77503

▼OTAL - All variants

SECTION 6: Accidental release measures

6.1 Personal precautions, protective 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. 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. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry 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. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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. Dispose of via a licensed waste disposal contractor.

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).

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.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

Date of issue/Date of revision : 15/02/2024 Date of previous issue : 21/02/2023 Version : 6 4/23

TOTAL - All variants Label No : 77503

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
E thyldiglycol	Regulation on Limit Values - MAC (Austria, 4/2021). PEAK: 140 mg/m³, 4 times per shift, 15 minutes. PEAK: 24 ppm, 4 times per shift, 15 minutes. TWA: 35 mg/m³ 8 hours. TWA: 6 ppm 8 hours.
2-(2-butoxyethoxy)ethanol	Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 10 ppm 8 hours. TWA: 67.5 mg/m³ 8 hours. PEAK: 15 ppm, 4 times per shift, 15 minutes. PEAK: 101.2 mg/m³, 4 times per shift, 15 minutes.
1-Methoxy 2-propanol	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 187 mg/m³ 8 hours. CEIL: 50 ppm CEIL: 187 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)	Regulation on Limit Values - MAC (Austria, 4/2021). [5-chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-dihydroisothiazol-3-one (mixture in the ratio 3:1)] Skin sensitiser.
2-(2-butoxyethoxy)ethanol	TWA: 0.05 mg/m³ 8 hours. Limit values (Belgium, 5/2021). STEL: 15 ppm 15 minutes. TWA: 10 ppm 8 hours. TWA: 67.5 mg/m³ 8 hours. STEL: 101.2 mg/m³ 15 minutes.
1-Methoxy 2-propanol	Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 184 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 369 mg/m³ 15 minutes.
2-(2-butoxyethoxy)ethanol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 67.5 mg/m³ 8 hours. Limit value 15 min: 101.2 mg/m³ 15 minutes. Limit value 15 min: 15 ppm 15 minutes. Limit value 8 hours: 10 ppm 8 hours.
1-Methoxy 2-propanol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 375 mg/m³ 8 hours. Limit value 15 min: 568 mg/m³ 15 minutes. Limit value 15 min: 150 ppm 15 minutes. Limit value 8 hours: 100 ppm 8 hours.
2-(2-butoxyethoxy)ethanol	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). STELV: 101.2 mg/m³ 15 minutes. STELV: 15 ppm 15 minutes. ELV: 67.5 mg/m³ 8 hours. ELV: 10 ppm 8 hours.
1-Methoxy 2-propanol	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). STELV: 568 mg/m³ 15 minutes. STELV: 150 ppm 15 minutes. ELV: 375 mg/m³ 8 hours. ELV: 100 ppm 8 hours.

Date of issue/Date of revision: 15/02/2024Date of previous issue: 21/02/2023Version: 65/23FOTAL - All variantsLabel No : ₹7503

Department of labour inspection (Cyprus, 7/2021). 2-(2-butoxyethoxy)ethanol STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m³ 15 minutes. TWA: 10 ppm 8 hours. TWA: 67.5 mg/m³ 8 hours. Department of labour inspection (Cyprus, 7/2021). Absorbed 1-Methoxy 2-propanol through skin. STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours. 2-(2-butoxyethoxy)ethanol Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). TWA: 70 mg/m³ 8 hours. TWA: 10.36 ppm 8 hours. STEL: 100 mg/m³ 15 minutes. STEL: 14.8 ppm 15 minutes. 1-Methoxy 2-propanol Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 270 mg/m³ 8 hours. TWA: 72.09 ppm 8 hours. STEL: 550 mg/m³ 15 minutes. STEL: 146.85 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). 2-(2-butoxyethoxy)ethanol TWA: 68 mg/m³ 8 hours. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. STEL: 101 mg/m³ 15 minutes. 1-Methoxy 2-propanol Working Environment Authority (Denmark, 6/2022). [1-methoxy-2-propanol] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 185 mg/m³ 8 hours. STEL: 568 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. 2-(2-butoxyethoxy)ethanol Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 10 ppm 8 hours. TWA: 67.5 mg/m³ 8 hours. 1-Methoxy 2-propanol Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 568 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. EU OEL (Europe, 1/2022). Notes: list of indicative 2-(2-butoxyethoxy)ethanol occupational exposure limit values TWA: 67.5 mg/m³ 8 hours. TWA: 10 ppm 8 hours. STEL: 101.2 mg/m³ 15 minutes. STEL: 15 ppm 15 minutes. 1-Methoxy 2-propanol EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 15 minutes.

Date of issue/Date of revision : 15/02/2024 · 21/02/2023 Version : 6 6/23 Date of previous issue **Label No** : 77503

TOTAL - All variants

2-(2-butoxyethoxy)ethanol Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 10 ppm 8 hours. TWA: 68 mg/m³ 8 hours. 1-Methoxy 2-propanol Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 370 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m³ 15 minutes. Ministry of Labor (France, 10/2022). Notes: Indicative 2-(2-butoxyethoxy)ethanol regulatory limit values (decree of 30-06-2004 modified) STEL: 101.2 mg/m3 15 minutes. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m³ 8 hours. TWA: 10 ppm 8 hours. Ministry of Labor (France, 10/2022). Absorbed through skin. 1-Methoxy 2-propanol Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 50 ppm 8 hours. TWA: 188 mg/m³ 8 hours. STEL: 375 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). **Ethyldiglycol** PEAK: 100 mg/m³, 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 50 mg/m³ 8 hours. Form: inhalable fraction TRGS 900 OEL (Germany, 6/2022). TWA: 35 mg/m³ 8 hours. PEAK: 70 mg/m3 15 minutes. TWA: 6 ppm 8 hours. PEAK: 12 ppm 15 minutes. 2-(2-butoxyethoxy)ethanol TRGS 900 OEL (Germany, 6/2022). TWA: 67 mg/m³ 8 hours. PEAK: 100.5 mg/m³ 15 minutes. TWA: 10 ppm 8 hours. PEAK: 15 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 67 mg/m³ 8 hours. PEAK: 100.5 mg/m³, 4 times per shift, 15 minutes. TWA: 10 ppm 8 hours. PEAK: 15 ppm, 4 times per shift, 15 minutes. 1-Methoxy 2-propanol TRGS 900 OEL (Germany, 6/2022). TWA: 370 mg/m³ 8 hours. PEAK: 740 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. PEAK: 200 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 100 ppm 8 hours. PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 370 mg/m³ 8 hours. PEAK: 740 mg/m³, 4 times per shift, 15 minutes. 1,2-benzisothiazol-3(2H)-one DFG MAC-values list (Germany, 7/2022). Skin sensitiser. 2-(2-butoxyethoxy)ethanol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). STEL: 101.2 mg/m³ 15 minutes. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m³ 8 hours. TWA: 10 ppm 8 hours. 1-Methoxy 2-propanol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 360 mg/m³ 8 hours.

Date of issue/Date of revision: 15/02/2024Date of previous issue: 21/02/2023Version: 67/23FOTAL - All variantsLabel No : ₹7503

STEL: 300 ppm 15 minutes. STEL: 1080 mg/m³ 15 minutes.

2-(2-butoxyethoxy)ethanol 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022).

TWA: 67.5 mg/m³ 8 hours. PEAK: 101.2 mg/m³ 15 minutes. PEAK: 15 ppm 15 minutes. TWA: 10 ppm 8 hours.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed 1-Methoxy 2-propanol through skin.

> TWA: 375 mg/m³ 8 hours. PEAK: 568 mg/m³ 15 minutes. PEAK: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.

Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). 2-(2-butoxyethoxy)ethanol

STEL: 101.2 mg/m³ 15 minutes. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m³ 8 hours. TWA: 10 ppm 8 hours.

Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). 1-Methoxy 2-propanol

> Absorbed through skin. STEL: 568 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 185 mg/m³ 8 hours.

TWA: 50 ppm 8 hours.

2-(2-butoxyethoxy)ethanol NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values

> OELV-8hr: 10 ppm 8 hours. OELV-15min: 101.2 mg/m3 15 minutes. OELV-8hr: 67.5 mg/m³ 8 hours. OELV-15min: 15 ppm 15 minutes.

NAOSH (Ireland, 5/2021). Notes: EU derived Occupational 1-Methoxy 2-propanol

> **Exposure Limit Values** OELV-8hr: 100 ppm 8 hours. OELV-8hr: 375 mg/m³ 8 hours. OELV-15min: 150 ppm 15 minutes. OELV-15min: 568 mg/m³ 15 minutes.

2-(2-butoxyethoxy)ethanol Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020).

> 8 hours: 10 ppm 8 hours. 8 hours: 67.5 mg/m³ 8 hours. Short Term: 15 ppm 15 minutes. Short Term: 101.2 mg/m³ 15 minutes.

Legislative Decree No. 819/2008. Title IX. Protection from 1-Methoxy 2-propanol chemical agents, carcinogens and mutagens (Italy, 6/2020).

> Absorbed through skin. 8 hours: 100 ppm 8 hours. 8 hours: 375 mg/m³ 8 hours. Short Term: 150 ppm 15 minutes.

Short Term: 568 mg/m3 15 minutes.

2-(2-butoxyethoxy)ethanol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).

STEL: 101.2 mg/m³ 15 minutes.

TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m³ 8 hours.

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). 1-Methoxy 2-propanol

Absorbed through skin. TWA: 100 ppm 8 hours. STEL: 568 mg/m³ 15 minutes. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes.

Version : 6 Date of issue/Date of revision : 15/02/2024 Date of previous issue · 21/02/2023 8/23 **Label No** : **7**7503

TOTAL - All variants

2-(2-butoxyethoxy)ethanol Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 67.5 mg/m³ 8 hours. TWA: 10 ppm 8 hours. STEL: 101.2 mg/m³ 15 minutes. STEL: 15 ppm 15 minutes. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). 1-Methoxy 2-propanol Absorbed through skin. TWA: 190 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 300 mg/m³ 15 minutes. STEL: 75 ppm 15 minutes. 2-(2-butoxyethoxy)ethanol Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m³ 15 minutes. TWA: 10 ppm 8 hours. TWA: 67.5 mg/m³ 8 hours. Grand-Duchy Regulation 2016. Chemical agents. Annex I 1-Methoxy 2-propanol (Luxembourg, 3/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 15 minutes. 2-(2-butoxyethoxy)ethanol EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 67.5 mg/m³ 8 hours. TWA: 10 ppm 8 hours. STEL: 101.2 mg/m³ 15 minutes. STEL: 15 ppm 15 minutes. 1-Methoxy 2-propanol EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 15 minutes. 2-(2-butoxyethoxy)ethanol Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 50 mg/m3 8 hours. STEL,15-min: 100 mg/m3 15 minutes. OEL, 8-h TWA: 7.4 ppm 8 hours. STEL,15-min: 14.8 ppm 15 minutes. 1-Methoxy 2-propanol Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 375 mg/m³ 8 hours. STEL,15-min: 563 mg/m³ 15 minutes. OEL, 8-h TWA: 100 ppm 8 hours. STEL.15-min: 150 ppm 15 minutes. 2-(2-butoxyethoxy)ethanol FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 10 ppm 8 hours. TWA: 68 mg/m³ 8 hours. 1-Methoxy 2-propanol FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 50 ppm 8 hours. TWA: 180 mg/m³ 8 hours. 2-(2-butoxyethoxy)ethanol Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021).

Date of issue/Date of revision · 15/02/2024 · 21/02/2023 Version: 6 9/23 Date of previous issue TOTAL - All variants **Label No** : 77503

1-Methoxy 2-propanol

TWA: 67 mg/m³ 8 hours. STEL: 100 mg/m³ 15 minutes.

Regulation of the Minister of Family, Labor and Social Policy

of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 180 mg/m³ 8 hours. STEL: 360 mg/m³ 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014). 2-(2-butoxyethoxy)ethanol TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor 1-Methoxy 2-propanol Portuguese Institute of Quality (Portugal, 11/2014). TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and 2-(2-butoxyethoxy)ethanol additions (Romania, 3/2021). VLA: 67.5 mg/m³ 8 hours. Short term: 101.2 mg/m³ 15 minutes. Short term: 15 ppm 15 minutes. VLA: 10 ppm 8 hours. HG 1218/2006, Annex 1, with subsequent modifications and 1-Methoxy 2-propanol additions (Romania, 3/2021). Absorbed through skin. VLA: 375 mg/m³ 8 hours. VLA: 100 ppm 8 hours. Short term: 568 mg/m³ 15 minutes. Short term: 150 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). 2-(2-butoxyethoxy)ethanol TWA: 67.5 mg/m³ 8 hours. STEL: 101.2 mg/m³ 15 minutes. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). 1-Methoxy 2-propanol Absorbed through skin. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 568 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. **Ethyldiglycol** Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). KTV: 12 ppm, 4 times per shift, 15 minutes. TWA: 6 ppm 8 hours. KTV: 70 mg/m³, 4 times per shift, 15 minutes. TWA: 35 mg/m³ 8 hours. Regulation on protection of workers from the risks related to 2-(2-butoxyethoxy)ethanol exposure to chemical substances at work (Slovenia, 5/2021). TWA: 67.5 mg/m³ 8 hours. TWA: 10 ppm 8 hours. KTV: 101.2 mg/m³, 4 times per shift, 15 minutes. KTV: 15 ppm, 4 times per shift, 15 minutes. 1-Methoxy 2-propanol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours. KTV: 568 mg/m³, 4 times per shift, 15 minutes. KTV: 150 ppm, 4 times per shift, 15 minutes. 2-(2-butoxyethoxy)ethanol National institute of occupational safety and health (Spain, 4/2022). TWA: 67.5 mg/m³ 8 hours. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m3 15 minutes. National institute of occupational safety and health (Spain, 1-Methoxy 2-propanol 4/2022). Absorbed through skin.

Date of issue/Date of revision : 15/02/2024 Date of previous issue : 21/02/2023 Version : 6 10/23

▼OTAL - All variants Label No: ▼7503

TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours.

SECTION 8: Exposure controls/personal protection STEL: 150 ppm 15 minutes. STEL: 568 ma/m³ 15 minutes. Ethyldiglycol Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. TWA: 15 ppm 8 hours. TWA: 80 mg/m³ 8 hours. STEL: 30 ppm 15 minutes. STEL: 170 mg/m³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden, 2-(2-butoxyethoxy)ethanol 9/2021). TWA: 10 ppm 8 hours. TWA: 68 mg/m³ 8 hours. STEL: 15 ppm 15 minutes. STEL: 101 mg/m³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden, 1-Methoxy 2-propanol 9/2021). Absorbed through skin. STEL: 150 ppm 15 minutes. STEL: 568 mg/m3 15 minutes. TWA: 190 mg/m³ 8 hours. TWA: 50 ppm 8 hours. **Ethyldiglycol** SUVA (Switzerland, 1/2023). STEL: 100 mg/m³ 15 minutes. Form: Inhalable fraction of Vapor and aerosols TWA: 50 mg/m³ 8 hours. Form: Inhalable fraction of Vapor and aerosols 2-(2-butoxyethoxy)ethanol SUVA (Switzerland, 1/2023). TWA: 67 mg/m³ 8 hours. Form: vapour and aerosols STEL: 101 mg/m³ 15 minutes. Form: vapour and aerosols STEL: 15 ppm 15 minutes. Form: vapour and aerosols TWA: 10 ppm 8 hours. Form: vapour and aerosols 1-Methoxy 2-propanol SUVA (Switzerland, 1/2023). TWA: 100 ppm 8 hours. TWA: 360 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 720 mg/m3 15 minutes. SUVA (Switzerland, 1/2023). Skin sensitiser. 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) STEL: 0.4 mg/m³ 15 minutes. Form: Inhalable fraction TWA: 0.2 mg/m³ 8 hours. Form: Inhalable fraction EH40/2005 WELs (United Kingdom (UK), 1/2020). 2-(2-butoxyethoxy)ethanol TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m³ 8 hours. STEL: 101.2 mg/m³ 15 minutes. 1-Methoxy 2-propanol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 560 mg/m3 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m³ 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
No exposure indices known.	

TWA: 100 ppm 8 hours.

Date of issue/Date of revision : 15/02/2024 Date of previous issue : 21/02/2023 Version : 6 11/23

▼OTAL - All variants Label No : ▼7503

No exposure indices known.

1-Methoxy 2-propanol

DFG BEI-values list (Germany, 7/2022)

BEI: 15 mg/l, propylene glycol 1-methyl ether [in urine]. Sampling

time: end of exposure or end of shift.

TRGS 903 - BEI Values (Germany, 2/2022)

BEI: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: end

of exposure or end of shift.

No exposure indices known.

1-Methoxy 2-propanol

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)

BAT: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: at the end of the work shift.

No exposure indices known.

No exposure indices known.

1-Methoxy 2-propanol

SUVA (Switzerland, 1/2023)

BEI: 20 mg/l, 1-methoxypropanol-2 [in urine]. Sampling time: immediately after exposure or after working hours.

BEI: 221.9 µmol/l, 1-methoxypropanol-2 [in urine]. Sampling time: immediately after exposure or after working hours.

No exposure indices known.

Recommended monitoring procedures

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Date of issue/Date of revision : 15/02/2024 Date of previous issue : 21/02/2023 Version : 6 12/23

TOTAL - All variants

Label No : **7**7503

Product/ingredient name	Type	Exposure	Value	Population	Effects
2 -(2-butoxyethoxy)ethanol	DNEL	Long term Oral	6.25 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	67.5 mg/m ³	Workers	Local
	DATE	Inhalation	404.0	NA7	1 1
	DNEL	Short term	101.2 mg/ m³	Workers	Local
1-Methoxy 2-propanol	DNEL	Inhalation Long term Oral	33 mg/kg	General	Systemic
1-Wethoxy 2-proparior	DIVLL	Long term Oral	bw/day	population	Oysternic
	DNEL	Long term	43.9 mg/m ³	General	Systemic
		Inhalation		population	-,
	DNEL	Long term Dermal	78 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	183 mg/kg	Workers	Systemic
	DNEL	l and tarm	bw/day	Workers	Cuatamia
	DINEL	Long term Inhalation	369 mg/m ³	vvoikeis	Systemic
	DNEL	Short term	553.5 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term	553.5 mg/	Workers	Systemic
		Inhalation	m³		
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/	General	Systemic
	DATE		kg bw/day	population	
	DNEL	Long term Dermal	0.966 mg/	Workers	Systemic
	DNEL	Long term	kg bw/day 1.2 mg/m³	General	Systemic
	DIVLL	Inhalation	1.2 1119/111	population	Oysternic
	DNEL	Long term	6.81 mg/m ³	Workers	Systemic
		Inhalation	3.		,
reaction mass of: 5-chloro-2-methyl-	DNEL	Long term	0.02 mg/m ³	General	Local
4-isothiazolin-3-one [EC no.		Inhalation		population	
247-500-7] and 2-methyl-2H-					
isothiazol-3-one [EC no. 220-239-6]					
(3:1)	DNEL	Long term	0.02 mg/m ³	Workers	Local
	DINEL	Inhalation	0.02 mg/m	WOIKEIS	Lucai
	DNEL	Short term	0.04 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	0.04 mg/m ³	Workers	Local
		Inhalation	_	_	
	DNEL	Long term Oral	0.09 mg/	General	Systemic
	חאבו	Charttanna Oral	kg bw/day	population	Cyrotomolo
	DNEL	Short term Oral	0.11 mg/	General	Systemic
			kg bw/day	population	

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Date of issue/Date of revision : 15/02/2024 Date of previous issue : 21/02/2023 Version : 6 13/23 **Label No** : **7**7503

TOTAL - All variants

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should

be worn at all times when handling chemical products if a risk assessment indicates

this is necessary.

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):

Environmental exposure

controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process

equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. Colour : Various Odour Slight

Odour threshold Not available. : Not available. Melting point/freezing point

Initial boiling point and

Ingredient name

1-Methoxy 2-propanol

boiling range

°C	°F	Method
100	212	

OECD 103

248.3

Flammability Not available. wer: 0.8% Lower and upper explosion limit Upper: 23.5%

Flash point Closed cup: >100°C (>212°F)

Auto-ignition temperature

Ingredient name	°C	°F	Method
E thyldiglycol	204	399.2	
2-(2-butoxyethoxy)ethanol	210	410	DIN 51794

120.17

Decomposition temperature : Not available.

pН 8 to 9 [Conc. (% w/w): 100%]

Not available. **Viscosity**

Solubility(ies)

Not available.

Solubility in water : Not available.

Date of issue/Date of revision : 15/02/2024 · 21/02/2023 Version: 6 14/23 Date of previous issue ▼OTAL - All variants **Label No** : **7**7503

SECTION 9: Physical and chemical properties

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

	Vapour Pressure at 20°C			Va	re at 50°C	
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
1-Methoxy 2-propanol	8.5	1.1				

Relative density : Not available.

Density : 1 g/cm³

Vapour density : Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

Particle characteristics

Median particle size : Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
1-Methoxy 2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
1,2-benzisothiazol-3(2H)-	LD50 Oral	Rat	1020 mg/kg	-
one				
reaction mass of: 5-chloro-	LD50 Oral	Rat	53 mg/kg	-
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: Based on available data, the classification criteria are not met.

Acute toxicity estimates

Route	ATE value
halation (vapours)	591.88 mg/l

Irritation/Corrosion

Date of issue/Date of revision : 15/02/2024 Date of previous issue : 21/02/2023 Version : 6 15/23

▼OTAL - All variants Label No : ▼7503

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
1-Methoxy 2-propanol	Eyes - Severe irritant Eyes - Mild irritant	Rabbit Rabbit	- -	mg 20 mg 24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
1,2-benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	48 hours 5 %	-
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)	Skin - Severe irritant	Human	-	0.01 %	-

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Sensitisation

Conclusion/Summary: Based on available data, the classification criteria are not met.

Mutagenicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Carcinogenicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Reproductive toxicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
1-Methoxy 2-propanol	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes : Not available.

of exposure

Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate : Not available.

effects

Date of issue/Date of revision : 15/02/2024 Date of previous issue : 21/02/2023 Version : 6 16/23

▼OTAL - All variants Label No : ₹7503

SECTION 11: Toxicological information

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary: Not available.

General : No known significant effects or critical hazards.
 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.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute EC50 0.36 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
	Acute EC50 3.7 mg/l	Daphnia - Daphnia Magna	48 hours
	Acute LC50 1.9 mg/l Fresh water	Fish - Onorhynchus Mykiss	96 hours
	Acute NOEC 0.15 mg/l Marine water	Algae - Skeletonema Costatum	72 hours

Conclusion/Summary: Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
1,2-benzisothiazol-3(2H)-one	EU	24 % - 28 days	-	-

Conclusion/Summary: This product has not been tested for biodegradation.

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

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2-(2-butoxyethoxy)ethanol	1	-	Low
1-Methoxy 2-propanol	<1	-	Low
bumetrizole	-	548 to 895	High
1,2-benzisothiazol-3(2H)-one	-	3.2	Low

12.4 Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Date of issue/Date of revision : 15/02/2024 Date of previous issue : 21/02/2023 Version : 6 17/23

▼OTAL - All variants Label No : ▼7503

SECTION 12: Ecological information

Product/ingredient name	PBT	Р	В	Т	vPvB	νP	vB
2-(2-butoxyethoxy)ethanol	No	N/A	N/A	No	N/A	N/A	N/A
1-Methoxy 2-propanol	No	N/A	N/A	No	N/A	N/A	N/A
bumetrizole	No	N/A	No	No	SVHC (Candidate)	Specified	Specified
1,2-benzisothiazol-3(2H)-one	No	N/A	No	No	No	N/A	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	N/A	N/A	No	N/A	N/A	N/A

12.6 Endocrine disrupting properties

Not available.

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. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

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

Date of issue/Date of revision : 15/02/2024 Date of previous issue : 21/02/2023 Version: 6 18/23 **Label No** : 77503

▼OTAL - All variants

SECTION 14: Transport information

user

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

14.7 Maritime transport in bulk according to IMO instruments

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

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

Intrinsic property	Ingredient name		Reference number	Date of revision
<mark>v</mark> P∨B	bumetrizole	Candidate	D(2023) 8585-DC	-

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

Product/ingredient name	%	Designation [Usage]
√2-(2-butoxyethoxy)ethanol	≤3	55 [Consumer paint]

Labelling

Other EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

: Not applicable. **Explosive precursors** Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Austria

: Not regulated. VbF class Limitation of the use of : Permitted.

organic solvents

Czech Republic

Storage code : IV

Denmark

Danish fire class : IV-1

Date of issue/Date of revision : 15/02/2024 · 21/02/2023 Version : 6 19/23 Date of previous issue TOTAL - All variants **Label No** : 77503

SECTION 15: Regulatory information

MAL-code

: 1-3

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: 1-3

Application: When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone.

- Coveralls must be worn.

During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

- Gas filter mask and coveralls must be worn.

When spraying in existing* spray booths, if the operator is outside the spray zone.-Full mask with combined filter, arm protectors and apron must be worn.

During non-atomising spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone.

- Air-supplied half mask and eye protection must be worn.

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

- Air-supplied full mask, 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.

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 **2**-(2-butoxyethoxy)ethanol RG 84 1-Methoxy 2-propanol RG 84

Date of issue/Date of revision : 15/02/2024 Date of previous issue : 21/02/2023 Version : 6 20/23

TOTAL - All variants

Label No : 77503

SECTION 15: Regulatory information

Reinforced medical surveillance

: Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

Germany

Storage class (TRGS 510) : 10 **Hazardous incident ordinance**

This product is not controlled under the Germany Hazardous Incident Ordinance.

Hazard class for water

Technical instruction on

air quality control

: TA-Luft Number 5.2.5: 10.4%

AOX The product contains organically bound halogens and can contribute to the AOX

value in waste water.

Italy

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

Norway Sweden Switzerland

VOC content : VOC (w/w): 6.4%

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety

assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

Not classified.

Full text of abbreviated H statements

Date of issue/Date of revision : 15/02/2024 · 21/02/2023 Version : 6 21/23 Date of previous issue

TOTAL - All variants Label No : 77503

SECTION 16: Other information

H226	Flammable liquid and vapour.
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.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic 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
Eye Dam. 1	SERIOUS EYÈ DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of issue/ Date of : 15/02/2024

revision

Date of previous issue : 21/02/2023

Version : 6

TOTAI All variants

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.

Date of issue/Date of revision : 15/02/2024 Date of previous issue : 21/02/2023 Version : 6 22/23

TOTAL - All variants

Label No : **7**7503

Date of issue/Date of revision: 15/02/2024Date of previous issue: 21/02/2023Version: 623/23▼OTAL - All variantsLabel No : ₹7503