# SAFETY DATA SHEET



MOTIVO COLORATO 2077-05 - All variants

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

1.1 Product identifier

Product name : MOTIVO COLORATO 2077-05 - All variants

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

Product 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 responsible for this SDS

: Prod-safe@teknos.com

**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.

Warning! Hazardous respirable droplets may be formed when sprayed. Do not

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breathe spray or mist.

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

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# **SECTION 2: Hazards identification**

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: None known.

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
irtanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤5	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]
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]
1,2-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 ≥ 0.036% M [Acute] = 1 M [Chronic] = 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)	EC: 911-418-6 CAS: 55965-84-9 Index: 613-167-00-5	<0.001	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.		

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# **SECTION 3: Composition/information on ingredients**

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.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [\*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

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

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

#### 4.1 Description of first aid measures

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

eyelids. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be

kept under medical surveillance for 48 hours.

**Skin contact**: 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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

# **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.

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Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides metal oxide/oxides

#### 5.3 Advice for firefighters

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# SECTION 5: Firefighting measures

Special protective actions for fire-fighters

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

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

#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, 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. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. 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. 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** 

Advice on general occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : 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.

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# **SECTION 7: Handling and storage**

Industrial sector specific : Not available. solutions

# **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
<b>2</b> -Butoxyethanol	Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin.  TWA 8 hours: 20 ppm.  TWA 8 hours: 98 mg/m³.  PEAK 30 minutes: 40 ppm 4 times per shift.  PEAK 30 minutes: 200 mg/m³ 4 times per shift.
2-(2-butoxyethoxy)ethanol	Regulation on Limit Values - MAC (Austria, 12/2024) 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.
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, 12/2024) [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.
<b>2</b> -Butoxyethanol	Limit values (Belgium, 12/2023) Absorbed through skin. 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	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.
<b>2</b> -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	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.
<b>2</b> -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	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.

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STELV 15 minutes: 15 ppm. ELV 8 hours: 67.5 mg/m³. ELV 8 hours: 10 ppm.

**Z**-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.

2-(2-butoxyethoxy)ethanol Department of labour inspection (Cyprus, 7/2021)

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

**Z**-Butoxyethanol Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) Absorbed through skin.

TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 200 mg/m³. STEL 15 minutes: 40.7 ppm.

2-(2-butoxyethoxy)ethanol Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023)

TWA 8 hours: 67.5 mg/m³. TWA 8 hours: 10 ppm.

STEL 15 minutes: 101.2 mg/m<sup>3</sup>. STEL 15 minutes: 15 ppm.

**Z**-Butoxyethanol Working Environment Authority (Denmark, 12/2024) Absorbed

through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 246 mg/m³. STEL 15 minutes: 50 ppm.

2-(2-butoxyethoxy)ethanol Working Environment Authority (Denmark, 12/2024)

TWA 8 hours: 68 mg/m³. TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101 mg/m³.

Z-Butoxyethanol Occupational exposure limits, Regulation No. 293 (Estonia,

4/2024) Absorbed through skin, Sensitiser.

TWA 8 hours: 98 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m³. 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/m³.

Z-Butoxyethanol EU OEL (Europe, 1/2022) Absorbed through skin.

2-(2-butoxyethoxy)ethanol

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TWA 8 hours: 20 ppm.
TWA 8 hours: 98 mg/m³.
STEL 15 minutes: 50 ppm.
STEL 15 minutes: 246 mg/m³.
EU OEL (Europe, 1/2022)

TWA 8 hours: 67.5 mg/m³.
TWA 8 hours: 10 ppm.

STEL 15 minutes: 101.2 mg/m<sup>3</sup>. STEL 15 minutes: 15 ppm.

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2-Butoxyethanol

Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 250 mg/m<sup>3</sup>.

2-(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<sup>3</sup>.

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<sup>3</sup>. Notes: Binding regulatory limit values

(article R. 4412-149 of the Labor Code)

STEL 15 minutes: 246 mg/m<sup>3</sup>. Notes: Binding regulatory limit

values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit values

(article R. 4412-149 of the Labor Code)

2-(2-butoxyethoxy)ethanol

Ministry of Labor (France, 6/2024)

STEL 15 minutes: 101.2 mg/m<sup>3</sup>. 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/m³. 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)

2-Butoxyethanol

TRGS 900 OEL (Germany, 6/2024) Absorbed through skin.

TWA 8 hours: 49 mg/m<sup>3</sup>. PEAK 15 minutes: 98 mg/m<sup>3</sup>. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm.

DFG MAC-values list (Germany, 7/2024) 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/m<sup>3</sup>.

PEAK 15 minutes: 98 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].

2-(2-butoxyethoxy)ethanol

TRGS 900 OEL (Germany, 6/2024)

TWA 8 hours: 67 mg/m<sup>3</sup>.

PEAK 15 minutes: 100.5 mg/m<sup>3</sup>.

TWA 8 hours: 10 ppm. PEAK 15 minutes: 15 ppm.

DFG MAC-values list (Germany, 7/2024) Develop C.

TWA 8 hours: 67 mg/m<sup>3</sup>.

PEAK 15 minutes: 100.5 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].

TWA 8 hours: 10 ppm.

PEAK 15 minutes: 15 ppm 4 times per shift [Interval: 1 hour].

DFG MAC-values list (Germany, 7/2024) Skin sensitiser.

Presidential Decree 307/1986: Occupational exposure limit

values (Greece, 8/2024) Absorbed through skin.

TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m<sup>3</sup>.

2-(2-butoxyethoxy)ethanol Presidential Decree 307/1986: Occupational exposure limit

values (Greece, 8/2024)

STEL 15 minutes: 101.2 mg/m<sup>3</sup>. STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m<sup>3</sup>. TWA 8 hours: 10 ppm.

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

2-Butoxyethanol

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2-Butoxvethanol

5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through

TWA 8 hours: 98 mg/m<sup>3</sup>. PEAK 15 minutes: 246 mg/m<sup>3</sup>. PEAK 15 minutes: 50 ppm. TWA 8 hours: 20 ppm.

2-(2-butoxyethoxy)ethanol

5/2020. (II. 6.) ITM Decree (Hungary, 1/2025)

TWA 8 hours: 67.5 mg/m<sup>3</sup>. PEAK 15 minutes: 101.2 mg/m<sup>3</sup>. PEAK 15 minutes: 15 ppm. TWA 8 hours: 10 ppm.

2-Butoxyethanol

Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)

Absorbed through skin.

STEL 15 minutes: 246 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. TWA 8 hours: 100 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm.

2-(2-butoxyethoxy)ethanol

Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)

STEL 15 minutes: 101.2 mg/m3. STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m<sup>3</sup>. TWA 8 hours: 10 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/m<sup>3</sup>.

2-(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/m<sup>3</sup>. OELV 8 hours: 67.5 mg/m<sup>3</sup>. OELV 15 minutes: 15 ppm.

2-Butoxyethanol

Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)

Absorbed through skin. Limit value 8 hours: 20 ppm. Limit value 8 hours: 98 mg/m<sup>3</sup>. Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 246 mg/m<sup>3</sup>.

2-(2-butoxyethoxy)ethanol

Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)

Limit value 8 hours: 10 ppm. Limit value 8 hours: 67.5 mg/m<sup>3</sup>. Short Term 15 minutes: 15 ppm. Short Term 15 minutes: 101.2 mg/m3.

2-Butoxyethanol

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

Absorbed through skin. TWA 8 hours: 98 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>.

2-(2-butoxyethoxy)ethanol

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

STEL 15 minutes: 101.2 mg/m<sup>3</sup>. TWA 8 hours: 10 ppm.

STEL 15 minutes: 15 ppm. TWA 8 hours: 67.5 mg/m<sup>3</sup>.

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2-Butoxyethanol Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Absorbed through skin. TWA 8 hours: 50 mg/m<sup>3</sup>. TWA 8 hours: 10 ppm. STEL 15 minutes: 100 mg/m<sup>3</sup>. STEL 15 minutes: 20 ppm. 2-(2-butoxyethoxy)ethanol Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

> TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m<sup>3</sup>. STEL 15 minutes: 15 ppm.

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<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>.

TWA 8 hours: 67.5 mg/m<sup>3</sup>.

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<sup>3</sup>. TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m<sup>3</sup>.

2-Butoxyethanol EU OEL (Europe, 1/2022) Absorbed through skin.

> TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>.

EU OEL (Europe, 1/2022) 2-(2-butoxyethoxy)ethanol TWA 8 hours: 67.5 mg/m<sup>3</sup>. TWA 8 hours: 10 ppm. STEL 15 minutes: 101.2 mg/m<sup>3</sup>.

STEL 15 minutes: 15 ppm. 2-Butoxyethanol

Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin.

TWA 8 hours: 100 mg/m<sup>3</sup>. STEL 15 minutes: 246 mg/m<sup>3</sup>. TWA 8 hours: 20.4 ppm. STEL 15 minutes: 50 ppm.

2-(2-butoxyethoxy)ethanol Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 5/2024) Absorbed through skin.

TWA 8 hours: 50 mg/m<sup>3</sup>. STEL 15 minutes: 100 mg/m<sup>3</sup>. TWA 8 hours: 7.4 ppm. STEL 15 minutes: 14.8 ppm.

2-Butoxyethanol FOR-2011-12-06-1358 (Norway, 5/2024) Absorbed through skin.

> TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m<sup>3</sup>.

FOR-2011-12-06-1358 (Norway, 5/2024) 2-(2-butoxyethoxy)ethanol

> TWA 8 hours: 10 ppm. TWA 8 hours: 68 mg/m<sup>3</sup>.

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,

environment (Journal of Laws of 2018, item 1286) (Poland,

7/2024) Absorbed through skin. TWA 8 hours: 98 mg/m<sup>3</sup>. STEL 15 minutes: 200 mg/m<sup>3</sup>.

Regulation of the Minister of Family, Labor and Social Policy 2-(2-butoxyethoxy)ethanol of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work

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

2-Butoxyethanol

2-(2-butoxyethoxy)ethanol

2-Butoxyethanol

2-(2-butoxyethoxy)ethanol

2-Butoxyethanol

2-(2-butoxyethoxy)ethanol

2-Butoxyethanol

2-(2-butoxyethoxy)ethanol

7/2024)

TWA 8 hours: 67 mg/m<sup>3</sup>. STEL 15 minutes: 100 mg/m<sup>3</sup>.

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, 7/2024) Absorbed through skin.

TWA 8 hours: 0.2 mg/m<sup>3</sup>. STEL 15 minutes: 0.4 mg/m<sup>3</sup>.

Portuguese Institute of Quality (Portugal, 11/2014) A3.

TWA 8 hours: 20 ppm.

Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) Absorbed through skin.

STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m<sup>3</sup>.

Portuguese Institute of Quality (Portugal, 11/2014)

TWA 8 hours: 10 ppm. Form: Inhalable fraction and vapor. Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)

STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m3. TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m<sup>3</sup>.

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin.

VLA 8 hours: 98 mg/m<sup>3</sup>. VLA 8 hours: 20 ppm.

Short term 15 minutes: 246 mg/m<sup>3</sup>. Short term 15 minutes: 50 ppm.

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)

VLA 8 hours: 67.5 mg/m<sup>3</sup>.

Short term 15 minutes: 101.2 mg/m<sup>3</sup>. Short term 15 minutes: 15 ppm.

VLA 8 hours: 10 ppm.

Government regulation SR c. 355/2006 (Slovakia, 6/2024)

Absorbed through skin, Inhalation sensitiser.

TWA 8 hours: 98 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm.

Government regulation SR c. 355/2006 (Slovakia, 6/2024)

Inhalation sensitiser.

TWA 8 hours: 67.5 mg/m<sup>3</sup>. STEL 15 minutes: 101.2 mg/m<sup>3</sup>.

TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm.

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

Absorbed through skin. TWA 8 hours: 98 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm.

KTV 15 minutes: 246 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

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<sup>3</sup>.

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2-Butoxyethanol

2-Butoxyethanol

2-(2-butoxyethoxy)ethanol

2-(2-butoxyethoxy)ethanol

KTV 15 minutes: 101.2 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 15 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

National institute of occupational safety and health (Spain,

1/2024) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m<sup>3</sup>. STEL 15 minutes: 245 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm.

National institute of occupational safety and health (Spain,

1/2024)

TWA 8 hours: 67.5 mg/m<sup>3</sup>. TWA 8 hours: 10 ppm. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m<sup>3</sup>.

Work environment authority Regulation 2018:1 (Sweden,

11/2022) Absorbed through skin.

TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>.

Work environment authority Regulation 2018:1 (Sweden,

11/2022)

TWA 8 hours: 10 ppm. TWA 8 hours: 68 mg/m<sup>3</sup>. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101 mg/m<sup>3</sup>.

2-Butoxyethanol SUVA (Switzerland, 1/2025) Absorbed through skin.

> TWA 8 hours: 10 ppm. TWA 8 hours: 49 mg/m<sup>3</sup>. STEL 15 minutes: 20 ppm. STEL 15 minutes: 98 mg/m<sup>3</sup>. SUVA (Switzerland, 1/2025)

2-(2-butoxyethoxy)ethanol TWA 8 hours: 67 mg/m<sup>3</sup>. Form: vapour and aerosols. STEL 15 minutes: 101 mg/m<sup>3</sup>. Form: vapour and aerosols.

> STEL 15 minutes: 15 ppm. Form: vapour and aerosols. TWA 8 hours: 10 ppm. Form: vapour and aerosols.

reaction mass of: 5-chloro-2-methyl-SUVA (Switzerland, 1/2025) Sensitiser. 4-isothiazolin-3-one [EC no. 247-500-7] and

STEL 15 minutes: 0.4 mg/m<sup>3</sup>. Form: Inhalable fraction. TWA 8 hours: 0.2 mg/m<sup>3</sup>. Form: Inhalable fraction.

EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed 2-Butoxyethanol

through skin.

STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm. STEL 15 minutes: 246 mg/m<sup>3</sup>. TWA 8 hours: 123 mg/m<sup>3</sup>.

2-(2-butoxyethoxy)ethanol EH40/2005 WELs (United Kingdom (UK), 1/2020)

> TWA 8 hours: 10 ppm. TWA 8 hours: 67.5 mg/m<sup>3</sup>. STEL 15 minutes: 15 ppm. STEL 15 minutes: 101.2 mg/m<sup>3</sup>.

**Biological exposure indices** 

2-methyl-2H-isothiazol-3-one [EC no.

220-239-6] (3:1)

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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.	
<b>2</b> -Butoxyethanol	Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023) [2- butoxyéthanol et son acétate] BLV: 100 mg/g Cr, 2-butoxyacetic acid [in urine]. Sampling time: end of shift (regardless of the day of the week).
<b>Z</b> -Butoxyethanol	DFG BEI-values list (Germany, 7/2024) Notes: danger from percutaneous absorption (see p. 211 and p. 228).  BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the shift, for long-term exposures after several previous shifts.  TRGS 903 - BEI Values (Germany, 10/2024)  BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the shift, for long-term exposure after several previous shifts.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
<b>Z</b> -Butoxyethanol	NAOSH BGVs (Ireland, 1/2011) BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
No exposure indices known.	
2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.
No exposure indices known.	
No exposure indices known.	

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2-Butoxvethanol

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, 1/2025)

BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in urine]. Sampling time: immediately after exposure or after working 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.

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**

#### **Product/ingredient name**

titanium dioxide

Result

**DNEL - General population - Long term - Inhalation** 

28 μg/m³ Effects: Local

**DNEL - Workers - Long term - Inhalation** 

170 μg/m³ <u>Effects</u>: Local

2-Butoxyethanol DNEL - General population - Long term - Oral

6.3 mg/kg bw/day Effects: Systemic

**DNEL - General population - Short term - Oral** 

26.7 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

59 mg/m<sup>3</sup>

Effects: Systemic

DNEL - Workers - Long term - Inhalation

98 mg/m³

Effects: Systemic

DNEL - General population - Short term - Inhalation

147 mg/m³ <u>Effects</u>: Local

**DNEL - Workers - Short term - Inhalation** 

246 mg/m³ Effects: Local

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DNEL - General population - Short term - Inhalation

426 mg/m<sup>3</sup> Effects: Systemic

**DNEL - Workers - Short term - Inhalation** 

1091 mg/m<sup>3</sup> Effects: Systemic

2-(2-butoxyethoxy)ethanol

DNEL - General population - Long term - Oral

6.25 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

67.5 mg/m<sup>3</sup> Effects: Local

**DNEL - Workers - Short term - Inhalation** 

101.2 mg/m<sup>3</sup> Effects: Local

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

DNEL - General population - Long term - Dermal

0.345 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Long term - Dermal** 

0.966 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

DNEL - General population - Long term - Inhalation

1.2 mg/m<sup>3</sup> Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

6.81 mg/m<sup>3</sup> Effects: Systemic

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

0.02 mg/m<sup>3</sup> Effects: Local

**DNEL - Workers - Long term - Inhalation** 

0.02 mg/m<sup>3</sup> Effects: Local

DNEL - General population - Short term - Inhalation

0.04 mg/m<sup>3</sup> Effects: Local

**DNEL - Workers - Short term - Inhalation** 

0.04 ma/m<sup>3</sup> Effects: Local

DNEL - General population - Long term - Oral

0.09 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Oral

0.11 mg/kg bw/day Effects: Systemic

**PNECs** 

Not available.

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#### 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.

**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.

**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.

**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 Slight Odour **Odour threshold** Not available.

Initial boiling point and

Melting point/freezing point

boiling range

: Not available.

°C Ingredient name °F Method water 100 212 171 to 171.5 339.8 to 340.7 2-Butoxyethanol IP 123-93

**Flammability** : Not available.

: Lower: 0.8% (2-(2-butoxyethoxy)ethanol) Lower and upper explosion

Upper: 9.4% (2-(2-butoxyethoxy)ethanol) limit

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

**Auto-ignition temperature** 

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# **SECTION 9: Physical and chemical properties**

Ingredient name	°C	°F	Method
2-dutoxyethoxy)ethanol	210	410	DIN 51794
2-Butoxyethanol	230	446	DIN 51794

**Decomposition temperature**: Not available.

**pH** : 8 to 9

Viscosity : Not available.

Solubility(ies) :

Not available.

Solubility in water : Not available.

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	
<b>w</b> ater	17.5	2.3					
2-Butoxyethanol	0.75006	0.1					

Relative density : Not available.

Density : 1.2 g/cm³

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

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should not be produced.

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

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

**Acute toxicity** 

Product/ingredient name

2-(2-butoxyethoxy)ethanol Rabbit - Dermal - LD50

2700 mg/kg

Result

Rat - Oral - LD50 4500 mg/kg

Toxic effects: Behavioral - Tetany Lung, Thorax, or Respiration

- Dyspnea Liver - Other changes

1,2-benzisothiazol-3(2H)-one Rat - Oral - LD50

1020 mg/kg

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

Rat - Oral - LD50

53 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration -

Respiratory depression

**Conclusion/Summary [Product]** : Not available.

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
MOTIVO COLORATO 2077-05	35714.3	N/A	491199.7	89.3	N/A
2-Butoxyethanol	1200	N/A	N/A	3	N/A
2-(2-butoxyethoxy)ethanol	4500	2700	N/A	N/A	N/A
1,2-benzisothiazol-3(2H)-one	450	N/A	N/A	N/A	0.21
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-	53	50	N/A	0.5	N/A
3-one [EC no. 247-500-7] and 2-methyl-2H-					
isothiazol-3-one [EC no. 220-239-6] (3:1)					

Result

#### Skin corrosion/irritation

Product/ingredient name

titanium dioxide Human - Skin - Mild irritant

> Duration of treatment/exposure: 72 hours Amount/concentration applied: 300 ug I

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 %

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

Human - Skin - Severe irritant

Amount/concentration applied: 0.01 %

**Conclusion/Summary [Product]**: Not available.

Serious eye damage/eye irritation

Product/ingredient name Result

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# **SECTION 11: Toxicological information**

Z-Butoxyethanol Rabbit - Eyes - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 100 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

2-(2-butoxyethoxy)ethanol Rabbit - Eyes - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 20 mg

Rabbit - Eyes - Severe irritant Amount/concentration applied: 20 mg

Conclusion/Summary [Product] : Not available.

#### **Respiratory corrosion/irritation**

Not available.

Conclusion/Summary [Product] : Not available.

#### Respiratory or skin sensitization

Not available.

#### Skin

**Conclusion/Summary [Product]**: Not available.

#### Respiratory

**Conclusion/Summary [Product]**: Not available.

#### **Germ cell mutagenicity**

Not available.

Conclusion/Summary [Product] : Not available.

#### **Carcinogenicity**

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Not available.

**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**

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### SECTION 11: Toxicological information

Not available.

#### Information on likely routes of exposure

Not available.

#### 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

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 [Product]**: 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.

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 Result

Manium dioxide Acute - LC50 - Marine water

Fish - Mummichog - Fundulus heteroclitus

>1000000 µg/l [96 hours]

Effect: Mortality

Acute - LC50 - Fresh water

Crustaceans - Water flea - Ceriodaphnia dubia - Neonate

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Age: <24 hours 3 mg/l [48 hours] Effect: Mortality

2-Butoxyethanol Acute - LC50 - Marine water

Fish - Inland silverside - Menidia beryllina

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# **SECTION 12: Ecological information**

Size: 40 to 100 mm 1250000 µg/l [96 hours]

Effect: Mortality

#### Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - Crangon

crangon

800000 µg/l [48 hours]

Effect: Mortality

#### 2-(2-butoxyethoxy)ethanol

#### Acute - LC50 - Fresh water

Fish - Bluegill - Lepomis macrochirus

Size: 33 to 75 mm 1300000 µg/l [96 hours] Effect: Mortality

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

#### Acute - LC50 - Fresh water

OECD [Fish, Acute Toxicity Test] Fish - Trout - Onorhynchus Mykiss

1.9 mg/l [96 hours]

#### Acute - EC50

OECD 202 [Daphnia sp. Acute Immobilization Test and

Reproduction Test]

Daphnia - Daphnia - Daphnia Magna

3.7 mg/l [48 hours]

#### Acute - EC50 - Marine water

OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - Skeletonema Costatum 0.36 mg/l [72 hours]

#### Acute - NOEC - Marine water

OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - Skeletonema Costatum

0.15 mg/l [72 hours]

#### **Conclusion/Summary [Product]**: Not available.

#### 12.2 Persistence and degradability

Product/ingredient name Result 1,2-benzisothiazol-3(2H)-one EU

24% [28 days]

#### Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
7,2-benzisothiazol-3(2H)-one	-	-	Inherent

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>2</b> -Butoxyethanol	0.81	-	Low
2-(2-butoxyethoxy)ethanol	1	-	Low
1,2-benzisothiazol-3(2H)-one	-	3.2	Low

#### 12.4 Mobility in soil

Soil/water partition coefficient

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# **SECTION 12: Ecological information**

Product/ingredient name	logKoc	Koc
Z-Butoxyethanol	1.8	67.3685
2-(2-butoxyethoxy)ethanol	1.6	36.5981
1,2-benzisothiazol-3(2H)-one	1.9	73.142

#### Results of PMT and vPvM assessment

oduct/ingredient name PMT P	M T	vPvM vP	vM
Inium dioxide Butoxyethanol 2-butoxyethoxy)ethanol 2-benzisothiazol-3(2H)-one	No No No No No No No No	No	No No No No

**Mobility** 

: Not available.

**Conclusion/Summary** 

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

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

Product/ingredient name	PBT	P	В	T	vPvB	νP	vB	
Itanium dioxide 2-Butoxyethanol 2-(2-butoxyethoxy)ethanol 1,2-benzisothiazol-3(2H)-one reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No No No No No	No N/A N/A N/A N/A	No N/A N/A No N/A	No No No No	No N/A N/A No N/A	No N/A N/A N/A N/A	No N/A N/A No N/A	

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

Product/ingredient name	PBT	P	В	T	vPvB	νP	vB	
titanium dioxide	No	No	No	No	No	No	No	
2-Butoxyethanol	No	No	No	No	No	No	No	
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No	
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No	
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	No	No	No	No	No	No	No	

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

### 12.6 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** 

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

#### 12.7 Other adverse effects

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# SECTION 12: Ecological information

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.

**Hazardous waste** 

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

**European waste** catalogue (EWC)

08.01.19

**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.	9006	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

#### **Additional information**

**ADN** 

The product is only regulated as a dangerous good when transported in tank vessels.

14.6 Special precautions for user

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

14.7 Maritime transport in bulk according to IMO instruments

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

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# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

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

Product/ingredient name	%	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

**Explosive precursors** : Not applicable. Ozone depleting substances (EU 2024/590)

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** 

Limitation of the use of

: Permitted.

organic solvents

**Belgium** 

Book VI carcinogenic agents annex VI.2-1 - VI.2-3

Ingredient name	Status
Sílice Sílice	Listed

**Czech Republic** 

Storage code : IV

**Denmark** 

Fire class :  $\overline{W}$ -1 Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
Manium dioxide	Listed	-

MAL-code : 1-1

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# SECTION 15: Regulatory information

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: 1-1

Application: 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 must be worn.

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

- Full mask with combined filter and arm protectors must be worn.

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

- 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 half mask, eye protection, 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

Carcinogenic waste

: Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.

**Finland France** 

Social Security Code. Articles L 461-1 to L 461-7 : 2-Butoxyethanol 2-(2-butoxyethoxy)ethanol

**RG 84 RG 84** 

Reinforced medical surveillance

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

Germany

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# **SECTION 15: Regulatory information**

Storage class (TRGS 510) : 10 Hazardous incident ordinance

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

Hazard class for water : 1

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
<b>5</b> .2.1	Total dust	31.8
5.2.5	Organic substances	22.6
5.2.5 [I]	Organic substances	5.5

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(3) Hazardous for aquatic organisms, may have long-term hazardous effects in

aquatic environment. Decontamination effort: A

Norway
Sweden
Switzerland

VOC content : VOC (w/w): 5.1%

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.

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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

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

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.
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]

Cute 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
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
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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