## SAFETY DATA SHEET



**MOTIVO COLORATO 2070-30** 

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

1.1 Product identifier

Product name : MOTIVO COLORATO 2070-30

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 adipohydrazide, 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-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

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
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
2-(2-butoxyethoxy)ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	≤5	Eye Irrit. 2, H319	-	[1] [2]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤3	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
adipohydrazide	REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8	<1	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
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]
2-methyl-2H-isothiazol- 3-one	EC: 220-239-6 CAS: 2682-20-4	<0.0015	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.11 mg/l Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 10 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)	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,	ATE [Oral] = 53 mg/kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: C ≥ 0.6%	[1]

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SECTION 3: Composition/information on ingredients					
	C´≥ Eye 0.06 Skir C≥ M [A	Dam. 1, H318: 0.6% Irrit. 2, H319: % ≤ C < 0.6% a Sens. 1, H317: 0.0015% Acute] = 100 Chronic] = 100			
	See Section 16 for the full text of the H statements declared above.				

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

#### **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

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

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

**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.

: No specific treatment. **Specific treatments** 

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### 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 nitrogen oxides metal oxide/oxides

#### 5.3 Advice for firefighters

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the 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. 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 noncombustible, 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.

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### **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

### **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
No exposure limit value known.	
2-(2-butoxyethoxy)ethanol	Limit values (Belgium, 5/2021).  STEL: 15 ppm 15 minutes.  TWA: 10 ppm 8 hours.  TWA: 67.5 mg/m³ 8 hours.
2-Butoxyethanol	STEL: 101.2 mg/m³ 15 minutes.  Limit values (Belgium, 5/2021). Absorbed through skin.  TWA: 20 ppm 8 hours.  TWA: 98 mg/m³ 8 hours.  STEL: 50 ppm 15 minutes.  STEL: 246 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.
2-Butoxyethanol	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: 98 mg/m³ 8 hours.  Limit value 15 min: 246 mg/m³ 15 minutes.  Limit value 15 min: 50 ppm 15 minutes.  Limit value 8 hours: 20 ppm 8 hours.

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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.

2-Butoxyethanol Ministry of Economy, Labour and Entrepreneurship ELV/
STELV (Croatia, 1/2021). Absorbed through skin.

STELV: 246 mg/m³ 15 minutes. STELV: 50 ppm 15 minutes. ELV: 98 mg/m³ 8 hours.

No exposure limit value known.

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.

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

of indicative occupational exposure limit values

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

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.

2-Butoxyethanol Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021). Absorbed through skin.

TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 250 mg/m³ 15 minutes.

2-(2-butoxyethoxy)ethanol Ministry of Labor (France, 10/2022). Notes: Indicative 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.

2-Butoxyethanol Ministry of Labor (France, 10/2022). Absorbed through skin.

Notes: Binding regulatory limit values (article R. 4412-149 of

the Labor Code)
TWA: 10 ppm 8 hours.
TWA: 49 mg/m³ 8 hours.
STEL: 246 mg/m³ 15 minutes.

STEL: 50 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/m<sup>3</sup> 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.

2-Butoxyethanol TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.

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

DFG MAC-values list (Germany, 7/2022). Absorbed through skin.

TWA: 10 ppm 8 hours.

PEAK: 20 ppm, 4 times per shift, 15 minutes.

TWA: 49 mg/m<sup>3</sup> 8 hours.

PEAK: 98 mg/m³, 4 times per shift, 15 minutes.

DFG MAC-values list (Germany, 7/2022). Skin sensitiser. DFG MAC-values list (Germany, 7/2022). Skin sensitiser.

No exposure limit value known.

2-(2-butoxyethoxy)ethanol

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

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

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022).

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

2-Butoxyethanol

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser.

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

2-(2-butoxyethoxy)ethanol

Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).

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

2-Butoxyethanol

Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).

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

No exposure limit value known.

No exposure limit value known.

2-(2-butoxyethoxy)ethanol

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

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

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

2-Butoxyethanol

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

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

2-(2-butoxyethoxy)ethanol

Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

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

STEL: 15 ppm 15 minutes.

2-Butoxyethanol

Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

Absorbed through skin. TWA: 50 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. STEL: 100 mg/m<sup>3</sup> 15 minutes. STEL: 20 ppm 15 minutes.

No exposure limit value known.

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2-(2-butoxyethoxy)ethanol EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values

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

STEL: 101.2 mg/m³ 15 minutes. STEL: 15 ppm 15 minutes.

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

of indicative occupational exposure limit values

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

2-Butoxyethanol Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 12/2022). Absorbed through skin.

OEL, 8-h TWA: 100 mg/m³ 8 hours. STEL,15-min: 246 mg/m³ 15 minutes. OEL, 8-h TWA: 20.4 ppm 8 hours. STEL,15-min: 50 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/m<sup>3</sup> 8 hours.

2-Butoxyethanol FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through

skin. Notes: indicative limit value

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

No exposure limit value known.

2-(2-butoxyethoxy)ethanol | Portuguese Institute of Quality (Portugal, 11/2014).

TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor Portuguese Institute of Quality (Portugal, 11/2014).

TWA: 20 ppm 8 hours.

No exposure limit value known.

2-Butoxyethanol

2-(2-butoxyethoxy)ethanol Government regulation SR c. 355/2006 (Slovakia, 9/2020).

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

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

2-Butoxyethanol Government regulation SR c. 355/2006 (Slovakia, 9/2020).

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

2-(2-butoxyethoxy)ethanol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).

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

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

Absorbed through skin. TWA: 98 mg/m³ 8 hours. TWA: 20 ppm 8 hours.

KTV: 246 mg/m³, 4 times per shift, 15 minutes. KTV: 50 ppm, 4 times per shift, 15 minutes.

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No exposure limit value known.

No exposure limit value known.

2-(2-butoxyethoxy)ethanol

2-Butoxyethanol

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

No exposure limit value known.

#### SUVA (Switzerland, 1/2023).

TWA: 67 mg/m<sup>3</sup> 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 SUVA (Switzerland, 1/2023). Absorbed through skin.

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

SUVA (Switzerland, 1/2023). Skin sensitiser.

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

### **Biological exposure indices**

Product/ingredient name	Exposure indices
No exposure indices known.	
2-Butoxyethanol	DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228).  BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts.  TRGS 903 - BEI Values (Germany, 2/2022)  BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts.
No exposure indices known.	

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No exposure indices known.

No exposure indices known.

2-Butoxyethanol

No exposure indices known.

No exposure indices known.

2-Butoxyethanol

No exposure indices known.

No exposure indices known.

2-Butoxyethanol

No exposure indices known.

Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.

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

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.

SUVA (Switzerland, 1/2023)

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.

# 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	Type	Exposure	Value	Population	Effects
2-(2-butoxyethoxy)ethanol	DNEL	Long term Oral	6.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	67.5 mg/m <sup>3</sup>		Local
	DNEL	Short term Inhalation	101.2 mg/ m³	Workers	Local
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	26.7 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	59 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	98 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	147 mg/m³	General population	Local
	DNEL	Short term Inhalation	246 mg/m <sup>3</sup>		Local
	DNEL	Short term Inhalation	426 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	1091 mg/ m³	Workers	Systemic
adipohydrazide	DNEL	Long term	17.5 mg/m³	Workers	Systemic
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.966 mg/	Workers	Systemic

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	DNEL	Long term	kg bw/day 1.2 mg/m³	General	Systemic
	DNEL	Inhalation Long term	6.81 mg/m³	population Workers	Systemic
2-methyl-2H-isothiazol-3-one	DNEL	Inhalation Long term Inhalation	0.021 mg/ m³	General population	Local
	DNEL	Long term Inhalation	0.021 mg/ m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	0.027 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	0.043 mg/ m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	0.043 mg/ m³	Workers	Local
	DNEL	Short term Oral	0.053 mg/ kg bw/day	General population	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]	DNEL	Long term Inhalation	0.02 mg/m <sup>3</sup>	General population	Local
(3:1)	DNEL	Long term Inhalation	0.02 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	0.04 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	0.04 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	0.09 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.11 mg/ kg bw/day	General population	Systemic

### **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.

### **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.

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Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Filter type (spray application): A P

**Environmental exposure** controls

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

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

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

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state: Liquid.Colour: VariousOdour: Slight

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and

Ingredient name

boiling range

2-Butoxyethanol

water

°C °F Method

IP 123-93

339.8 to 340.7

Flammability : Not available.

Lower and upper explosion : Lower: 0.8% Upper: 9.4%

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

Auto-ignition temperature

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

171 to 171.5

**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.

watei

Vapour pressure :

	Vap	Vapour Pressure at 20°C			Vapour pressure at 50		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
water	17.5	2.3					
2-Butoxyethanol	0.75006	0.1					

Relative density : Not available.

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

Density : 1.2 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	-
1,2-benzisothiazol-3(2H)-	LD50 Oral	Rat	1020 mg/kg	-
one				
2-methyl-2H-isothiazol-	LC50 Inhalation Dusts and	Rat	0.11 mg/l	4 hours
3-one	mists			
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		
Inhalation (gases)	52465.91 mg/kg 525961.68 ppm 131.16 mg/l		

### **Irritation/Corrosion**

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

Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug I	
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
	Face Occurs in the A	D.1.1.2		mg	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 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-	Skin - Severe irritant	Human	-	0.01 %	-
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.

**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** 

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.

**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)

Not available.

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** : No known significant effects or critical hazards. 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** 

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

**Potential immediate** 

effects

: Not available.

**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
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
2-(2-butoxyethoxy)ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
1,2-benzisothiazol-3(2H)-one	Acute EC50 0.36 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
	Acute EC50 3.7 mg/l	Daphnia - <i>Daphnia Magna</i>	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
2-methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
-	Acute LC50 0.07 ppm Fresh water	Fish - Oncorhynchus mykiss	96 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
1,2-benzisothiazol-3(2H)-one	-	-	Inherent

### 12.3 Bioaccumulative potential

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### **SECTION 12: Ecological information**

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

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

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

### 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.

**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	-	-

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#### **SECTION 14: Transport information** 14.4 Packing group 14.5 No. Yes. No. No. **Environmental** hazards

### **Additional information**

**ADN** 

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

vessels.

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

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	≤5	55 [Consumer paint]

Labelling ÷

Other EU regulations

**Industrial emissions** 

: Not listed

(integrated pollution prevention and control) -

**Industrial emissions** 

: Not listed

(integrated pollution prevention and control) -

Water

**Explosive precursors** : Not applicable. 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** 

**Czech Republic** 

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### **SECTION 15: Regulatory information**

Denmark Finland France

Social Security Code, : 2-(2-butoxyethoxy)ethanol RG 84
Articles L 461-1 to L 461-7 2-Butoxyethanol RG 84

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 : 1

**Technical instruction on** 

air quality control

: TA-Luft Number 5.2.5: 22.6% TA-Luft Class I - Number 5.2.5: 0.2%

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

value in waste water.

<u>Italy</u>

**AOX** 

**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): 5.7%

**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** 

acronyms

: ATE = Acute Toxicity Estimate

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

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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

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

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

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic 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.
H411	Toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

### Full text of classifications [CLP/GHS]

	<del></del>
Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
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. 1B	SKIN CORROSION/IRRITATION - Category 1B
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

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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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