# SAFETY DATA SHEET



TEKNOPRIMER 2949-21 - TIP 212017

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

1.1 Product identifier

: TEKNOPRIMER 2949-21 - TIP 212017 **Product name** 

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** 

: In an emergency, call 112 Telephone number

### **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]

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

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

2.2 Label elements

Signal word : No signal word.

**Hazard statements** : H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

: P273 - Avoid release to the environment. **Prevention** 

Response : Not applicable. **Storage** : Not applicable.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Supplemental label

elements

: Contains 3-iodo-2-propynyl-butyl carbamate, 1,2-benzisothiazol-3(2H)-one, 2-Octyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one. May produce an allergic

reaction.

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Contains biocidal products for dry film and in-can

preservation: IPBC and BIT and DTBMA and Bronopol and OIT and MIT and MBIT.

Risk of skin sensitisation.

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### **SECTION 2: Hazards identification**

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

### 2.3 Other hazards

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

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

Other hazards which do not result in classification

: None known.

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

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
2-(2-butoxyethoxy)ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	≤5	Eye Irrit. 2, H319	-	[1] [2]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤3	Carc. 2, H351 (inhalation)	-	[1] [*]
3-iodo-2-propynyl-butyl carbamate	EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	≤0.3	Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 400 mg/kg ATE [Inhalation (dusts and mists)] = 0.67 mg/l M [Acute] = 10 M [Chronic] = 1	[1]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤0.3	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
Ammonia	REACH #: 01-2119488876-14 EC: 215-647-6 CAS: 1336-21-6 Index: 007-001-01-2	≤0.3	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400	STOT SE 3, H335: C ≥ 5% M [Acute] = 1	[1] [2]
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]
pyrithione zinc	REACH #: 01-2119511196-46 EC: 236-671-3 CAS: 13463-41-7	<0.01	Acute Tox. 3, H301 Acute Tox. 2, H330 Eye Dam. 1, H318 Repr. 1B, H360D	ATE [Oral] = 221 mg/kg ATE [Inhalation (dusts and mists)]	[1]

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#### SECTION 3: Composition/information on ingredients Index: 613-333-00-7 STOT RE 1, H372 = 0.14 mg/lAguatic Acute 1, H400 M [Acute] = 1000 Aquatic Chronic 1, M [Chronic] = 10H410 < 0.001 2-Octyl-2H-isothiazol-3-one EC: 247-761-7 Acute Tox. 3, H301 ATE [Oral] = 125 [1] Acute Tox. 3, H311 CAS: 26530-20-1 mg/kg Index: 613-112-00-5 Acute Tox. 2, H330 ATE [Dermal] = Skin Corr. 1, H314 311 mg/kg Eye Dam. 1, H318 ATE [Inhalation Skin Sens. 1A, H317 (dusts and mists)] Aguatic Acute 1, H400 = 0.27 mg/lAquatic Chronic 1, Skin Sens. 1, H317: H410 C ≥ 0.0015% **EUH071** M [Acute] = 100 M [Chronic] = 100 2-methyl-2H-isothiazol-< 0.0015 Acute Tox. 3, H301 ATE [Oral] = 100 EC: 220-239-6 [1] Acute Tox. 3, H311 3-one CAS: 2682-20-4 mg/kg Acute Tox. 2, H330 ATE [Dermal] = Skin Corr. 1B, H314 300 mg/kg Eye Dam. 1, H318 ATE [Inhalation Skin Sens. 1A, H317 (dusts and mists)] Aquatic Acute 1, H400 = 0.11 mg/lAquatic Chronic 1, Skin Sens. 1, H317: H410 C ≥ 0.0015% **EUH071** M [Acute] = 10 M [Chronic] = 1See Section 16 for

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.

**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

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the full text of the H statements declared

above.

unless directed to do so by medical personnel.

**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.

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

: No specific data. Ingestion

### 4.3 Indication of any immediate medical attention and special treatment needed

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

quantities have been ingested or inhaled.

Specific treatments No specific treatment.

# SECTION 5: 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion** products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide 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). Water polluting material. May be harmful to the environment if released in large quantities.

#### 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.

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### **SECTION 6: Accidental release measures**

### Large spill

: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

# 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

#### 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
2-(2-butoxyethoxy)ethanol	Regulation on Limit Values - MAC (Austria, 4/2021).
	TWA: 10 ppm 8 hours.
	TWA: 67.5 mg/m³ 8 hours.
	PEAK: 15 ppm, 4 times per shift, 15 minutes.
	PEAK: 101.2 mg/m³, 4 times per shift, 15 minutes.
Ammonia	Regulation on Limit Values - MAC (Austria, 4/2021). []
	TWA: 20 ppm 8 hours.
	TWA: 14 mg/m³ 8 hours.
	PEAK: 50 ppm, 4 times per shift, 15 minutes.
	PEAK: 36 mg/m³, 4 times per shift, 15 minutes.
2-Octyl-2H-isothiazol-3-one	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin. Sensitization potential.

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

TWA: 0.05 mg/m³ 8 hours. Form: Inhalable fraction CEIL: 0.05 mg/m³ 15 minutes. Form: Inhalable fraction

Regulation on Limit Values - MAC (Austria, 4/2021). [] Skin

sensitiser.

TWA: 0.05 mg/m<sup>3</sup> 8 hours.

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. STEL: 101.2 mg/m³ 15 minutes.

2-Butoxyethanol

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.

Ammonia

Limit values (Belgium, 5/2021). [ammonia]

TWA: 20 ppm 8 hours. TWA: 14 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 36 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.

Ammonia

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Ammonia]

Limit value 8 hours: 14 mg/m³ 8 hours. Limit value 15 min: 36 mg/m³ 15 minutes. Limit value 15 min: 50 ppm 15 minutes. Limit value 8 hours: 20 ppm 8 hours.

2-(2-butoxyethoxy)ethanol

Ministry of Economy, Labour and Entrepreneurship ELV/

STELV (Croatia, 1/2021).

STELV: 101.2 mg/m³ 15 minutes. STELV: 15 ppm 15 minutes. ELV: 67.5 mg/m³ 8 hours. ELV: 10 ppm 8 hours.

Ammonia

Ministry of Economy, Labour and Entrepreneurship ELV/

STELV (Croatia, 1/2021). []
STELV: 36 mg/m³ 15 minutes.
STELV: 50 ppm 15 minutes.
ELV: 14 mg/m³ 8 hours.
ELV: 20 ppm 8 hours.

2-(2-butoxyethoxy)ethanol

Department of labour inspection (Cyprus, 7/2021).

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

2-Butoxyethanol

Department of labour inspection (Cyprus, 7/2021). Absorbed through skin.

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

Ammonia

EU OEL (Europe, 1/2022). [ammonia, anhydrous] Notes: list of indicative occupational exposure limit values

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TWA: 20 ppm 8 hours. TWA: 14 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 36 mg/m³ 15 minutes.

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2-(2-butoxyethoxy)ethanol Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 5/2021). TWA: 70 mg/m<sup>3</sup> 8 hours. TWA: 10.36 ppm 8 hours. STEL: 100 mg/m<sup>3</sup> 15 minutes. STEL: 14.8 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech Ammonia Republic, 5/2021). [] TWA: 14 mg/m<sup>3</sup> 8 hours. STEL: 36 mg/m³ 15 minutes. TWA: 19.768 ppm 8 hours. STEL: 50.832 ppm 15 minutes. 2-(2-butoxyethoxy)ethanol Working Environment Authority (Denmark, 6/2022). TWA: 68 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. STEL: 101 mg/m<sup>3</sup> 15 minutes. 2-Butoxyethanol Working Environment Authority (Denmark, 6/2022). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m<sup>3</sup> 8 hours. STEL: 246 mg/m<sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes. Ammonia Working Environment Authority (Denmark, 6/2022). [ammonia] TWA: 20 ppm 8 hours. TWA: 14 mg/m<sup>3</sup> 8 hours. STEL: 36 mg/m<sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes. 2-(2-butoxyethoxy)ethanol Occupational exposure limits, Regulation No. 293 (Estonia, 10/2019). TWA: 10 ppm 8 hours. TWA: 67.5 mg/m<sup>3</sup> 8 hours. Occupational exposure limits, Regulation No. 293 (Estonia, Ammonia 10/2019). [] TWA: 14 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 36 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. 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/m<sup>3</sup> 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/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m<sup>3</sup> 15 minutes. EU OEL (Europe, 1/2022). [ammonia, anhydrous] Notes: list of Ammonia indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 14 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 36 mg/m<sup>3</sup> 15 minutes. 2-(2-butoxyethoxy)ethanol Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020). TWA: 10 ppm 8 hours. TWA: 68 mg/m<sup>3</sup> 8 hours. Ammonia Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020). TWA: 20 ppm 8 hours. Form: solution

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2-(2-butoxyethoxy)ethanol

Ammonia

2-(2-butoxyethoxy)ethanol

3-iodo-2-propynyl-butyl carbamate

2-Butoxyethanol

Ammonia

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

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

TWA: 14 mg/m<sup>3</sup> 8 hours. Form: solution STEL: 50 ppm 15 minutes. Form: solution STEL: 36 mg/m<sup>3</sup> 15 minutes. Form: solution

Ministry of Labor (France, 5/2021). Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)

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.

Ministry of Labor (France, 5/2021). [] Notes: Binding

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

TWA: 10 ppm 8 hours. TWA: 7 mg/m<sup>3</sup> 8 hours. STEL: 20 ppm 15 minutes. STEL: 14 mg/m<sup>3</sup> 15 minutes.

TRGS 900 OEL (Germany, 6/2022).

TWA: 67 mg/m<sup>3</sup> 8 hours. PEAK: 100.5 mg/m<sup>3</sup> 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/m<sup>3</sup>, 4 times per shift, 15 minutes.

TWA: 10 ppm 8 hours.

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

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

PEAK: 0.116 mg/m³, 4 times per shift, 15 minutes. PEAK: 0.01 ppm, 4 times per shift, 15 minutes.

TWA: 0.058 mg/m<sup>3</sup> 8 hours. TWA: 0.005 ppm 8 hours.

TRGS 900 OEL (Germany, 6/2022). Skin sensitiser.

PEAK: 0.116 mg/m<sup>3</sup> 15 minutes. PEAK: 0.01 ppm 15 minutes. TWA: 0.058 mg/m<sup>3</sup> 8 hours. TWA: 0.005 ppm 8 hours.

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

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/m<sup>3</sup>, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). [ammonia]

TWA: 14 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. PEAK: 28 mg/m<sup>3</sup> 15 minutes. PEAK: 40 ppm 15 minutes.

DFG MAC-values list (Germany, 7/2022). [Ammonia]

TWA: 20 ppm 8 hours.

PEAK: 40 ppm, 4 times per shift, 15 minutes.

TWA: 14 mg/m<sup>3</sup> 8 hours.

PEAK: 28 mg/m³, 4 times per shift, 15 minutes.

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

skin.

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

TWA: 0.05 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction PEAK: 0.1 mg/m<sup>3</sup> 15 minutes. Form: Inhalable fraction

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

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TWA: 0.05 mg/m<sup>3</sup> 8 hours. Form: inhalable fraction PEAK: 0.1 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. Form: inhalable 2-methyl-2H-isothiazol-3-one DFG MAC-values list (Germany, 7/2022). Skin sensitiser. Presidential Decree 307/1986: Occupational exposure limit 2-(2-butoxyethoxy)ethanol values (Greece, 9/2021). 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. Presidential Decree 307/1986: Occupational exposure limit 2-Butoxyethanol values (Greece, 9/2021). Absorbed through skin. TWA: 25 ppm 8 hours. TWA: 120 mg/m<sup>3</sup> 8 hours. Presidential Decree 307/1986: Occupational exposure limit Ammonia values (Greece, 9/2021). [ammonia] TWA: 50 ppm 8 hours. TWA: 35 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 35 mg/m³ 15 minutes. 2-(2-butoxyethoxy)ethanol 5/2020. (II. 6.) ITM Decree (Hungary, 2/2020). TWA: 67.5 mg/m<sup>3</sup> 8 hours. PEAK: 101.2 mg/m<sup>3</sup> 15 minutes. Ammonia 5/2020. (II. 6.) ITM Decree (Hungary, 2/2020). [] TWA: 14 mg/m<sup>3</sup> 8 hours. PEAK: 36 mg/m3 15 minutes. 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. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Ammonia [ammonia] Absorbed through skin. STEL: 36 mg/m<sup>3</sup> 5 minutes. STEL: 50 ppm 5 minutes. TWA: 14 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. 2-(2-butoxyethoxy)ethanol NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 10 ppm 8 hours. OELV-15min: 101.2 mg/m3 15 minutes. OELV-8hr: 67.5 mg/m<sup>3</sup> 8 hours. OELV-15min: 15 ppm 15 minutes. NAOSH (Ireland, 5/2021). [ammonia, anhydrous] Notes: EU Ammonia derived Occupational Exposure Limit Values OELV-8hr: 20 ppm 8 hours. OELV-8hr: 14 mg/m3 8 hours. OELV-15min: 50 ppm 15 minutes. OELV-15min: 36 mg/m<sup>3</sup> 15 minutes. 2-(2-butoxyethoxy)ethanol Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020).

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

Short Term: 15 ppm 15 minutes. Short Term: 101.2 mg/m³ 15 minutes.

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

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Absorbed through skin.

8 hours: 20 ppm 8 hours. 8 hours: 98 mg/m³ 8 hours. Short Term: 50 ppm 15 minutes. Short Term: 246 mg/m³ 15 minutes.

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

[ammonia]

8 hours: 20 ppm 8 hours. 8 hours: 14 mg/m³ 8 hours. Short Term: 50 ppm 15 minutes. Short Term: 36 mg/m³ 15 minutes.

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

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

TWA: 67.5 mg/m³ 8 hours.

Ammonia

Ministers Cabinet Regulati

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

TWA: 14 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 36 mg/m³ 15 minutes. TWA: 20 ppm 8 hours.

2-(2-butoxyethoxy)ethanol Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

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

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

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

Absorbed through skin. TWA: 50 mg/m³ 8 hours. TWA: 10 ppm 8 hours. STEL: 100 mg/m³ 15 minut

STEL: 100 mg/m³ 15 minutes. STEL: 20 ppm 15 minutes.

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

[ammonia]

TWA: 14 mg/m³ 8 hours. TWA: 20 ppm 8 hours. STEL: 36 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.

Z-(2-butoxyethoxy)ethanol

Grand-Duchy Regulation 2016. Chemical agents. Annex I
(Luxembourg, 3/2021). Absorbed through skin.

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

2-Butoxyethanol TWA: 67.5 mg/m³ 8 hours.

Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021). Absorbed through skin.

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

Ammonia Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021). [ammonia]

TWA: 20 ppm 8 hours. TWA: 14 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 36 mg/m³ 15 minutes.

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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/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m³ 15 minutes.

EU OEL (Europe, 1/2022). [ammonia, anhydrous] Notes: list of Ammonia

indicative occupational exposure limit values

TWA: 20 ppm 8 hours. TWA: 14 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 36 mg/m<sup>3</sup> 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/m<sup>3</sup> 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.

Ammonia Ministry of Social Affairs and Employment, Legal limit values

> (Netherlands, 12/2022). [ammonia] OEL, 8-h TWA: 14 mg/m<sup>3</sup> 8 hours. STEL,15-min: 36 mg/m³ 15 minutes. STEL,15-min: 50 ppm 15 minutes. OEL, 8-h TWA: 20 ppm 8 hours.

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.

FOR-2011-12-06-1358 (Norway, 12/2022). [ammonia] Notes: Ammonia

> indicative limit value TWA: 15 ppm 8 hours. TWA: 11 mg/m<sup>3</sup> 8 hours.

FOR-2011-12-06-1358 (Norway, 12/2022). [ammonia]

STEL: 50 ppm 15 minutes.

STEL: 36 mg/m³ 15 minutes.

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021).

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

2-Butoxyethanol Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible

concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland,

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2/2021). Absorbed through skin.

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2-(2-butoxyethoxy)ethanol

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

Ammonia

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland,

**2/2021). [ammonia]**TWA: 14 mg/m³ 8 hours.
STEL: 28 mg/m³ 15 minutes.

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

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

TWA: 25 ppm 8 hours. STEL: 35 ppm 15 minutes.

2-(2-butoxyethoxy)ethanol HG 1218/2006, Annex 1, with subsequent modifications and

additions (Romania, 3/2021). VLA: 67.5 mg/m³ 8 hours.

Short term: 101.2 mg/m³ 15 minutes. Short term: 15 ppm 15 minutes.

VLA: 10 ppm 8 hours.

Ammonia HG 1218/2006, Annex 1, with subsequent modifications and

additions (Romania, 3/2021). []

VLA: 14 mg/m³ 8 hours. VLA: 20 ppm 8 hours.

Short term: 36 mg/m³ 15 minutes. Short term: 50 ppm 15 minutes.

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.

Ammonia Government regulation SR c. 355/2006 (Slovakia, 9/2020). []

TWA: 14 mg/m³, (ammonia) 8 hours. TWA: 20 ppm, (ammonia) 8 hours. STEL: 36 mg/m³, (ammonia) 15 minutes. STEL: 50 ppm, (ammonia) 15 minutes.

pyrithione zinc Government regulation SR c. 355/2006 (Slovakia, 9/2020). []

TWA: 2 mg/m³, (Zinc and its inorganic compounds) 8 hours.

Form: Inhalable fraction

TWA: 0.1 mg/m³, (Zinc and its inorganic compounds) 8 hours.

Form: Respirable fraction

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.

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

KTV: 0.01 ppm, 4 times per shift, 15 minutes.

TWA: 0.005 ppm 8 hours.

KTV: 0.116 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.

TWA: 0.058 mg/m<sup>3</sup> 8 hours.

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

TWA: 14 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours.

KTV: 36 mg/m³, 4 times per shift, 15 minutes. KTV: 50 ppm, 4 times per shift, 15 minutes.

2-Octyl-2H-isothiazol-3-one Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).

**Absorbed through skin.**TWA: 0.05 mg/m³ 8 hours. Form: Inhalable fraction

KTV: 0.1 mg/m³, 4 times per shift, 15 minutes. Form: Inhalable

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fraction 2-(2-butoxyethoxy)ethanol National institute of occupational safety and health (Spain, 4/2021). TWA: 67.5 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m<sup>3</sup> 15 minutes. National institute of occupational safety and health (Spain, Ammonia 4/2021). [] TWA: 20 ppm 8 hours. TWA: 14 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 36 mg/m<sup>3</sup> 15 minutes. 2-(2-butoxyethoxy)ethanol Work environment authority Regulation 2018:1 (Sweden, 9/2021). TWA: 10 ppm 8 hours. TWA: 68 mg/m<sup>3</sup> 8 hours. STEL: 15 ppm 15 minutes. STEL: 101 mg/m<sup>3</sup> 15 minutes. Work environment authority Regulation 2018:1 (Sweden, Ammonia 9/2021). [ammonia] TWA: 20 ppm 8 hours. TWA: 14 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 5 minutes. STEL: 36 mg/m<sup>3</sup> 5 minutes. 2-(2-butoxyethoxy)ethanol SUVA (Switzerland, 1/2021). TWA: 67 mg/m<sup>3</sup> 8 hours. Form: vapour and aerosols STEL: 101 mg/m<sup>3</sup> 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, 1/2021). Skin sensitiser. 3-iodo-2-propynyl-butyl carbamate STEL: 0.24 mg/m³ 15 minutes. Form: vapour and aerosols STEL: 0.02 ppm 15 minutes. Form: vapour and aerosols TWA: 0.01 ppm 8 hours. Form: vapour and aerosols TWA: 0.12 mg/m<sup>3</sup> 8 hours. Form: vapour and aerosols Ammonia SUVA (Switzerland, 1/2021). [] TWA: 20 ppm 8 hours. TWA: 14 mg/m<sup>3</sup> 8 hours. STEL: 40 ppm 15 minutes. STEL: 28 mg/m<sup>3</sup> 15 minutes. 2-Octyl-2H-isothiazol-3-one SUVA (Switzerland, 1/2021). Absorbed through skin. Skin sensitiser. TWA: 0.05 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction STEL: 0.1 mg/m³ 15 minutes. Form: Inhalable fraction 2-(2-butoxyethoxy)ethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m<sup>3</sup> 8 hours. STEL: 101.2 mg/m<sup>3</sup> 15 minutes. 2-Butoxyethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours. STEL: 246 mg/m<sup>3</sup> 15 minutes. TWA: 123 mg/m<sup>3</sup> 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed 1-Methoxy 2-propanol through skin. STEL: 560 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. Ammonia EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia]

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STEL: 25 mg/m³ 15 minutes. Form: anhydrous STEL: 35 ppm 15 minutes. Form: anhydrous

	TWA: 25 ppm 8 hours. Form: anhydrous
	TWA: 18 mg/m³ 8 hours. Form: anhydrous
Ethanediol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	TWA: 10 mg/m³ 8 hours. Form: Particulate
	TWA: 20 ppm 8 hours. Form: Vapour
	STEL: 40 ppm 15 minutes. Form: Vapour
	TWA: 52 mg/m <sup>3</sup> 8 hours. Form: Vapour
	STEL: 104 mg/m³ 15 minutes. Form: Vapour
Hydrogen chloride	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 8 mg/m³ 15 minutes. Form: (gas and aerosol mists)
	STEL: 5 ppm 15 minutes. Form: (gas and aerosol mists)
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: (gas and aerosol mists)
	TWA: 1 ppm 8 hours. Form: (gas and aerosol mists)
Phosphoric acid, solution	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 2 mg/m³ 15 minutes.
	TWA: 1 mg/m <sup>3</sup> 8 hours.

# **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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# **SECTION 8: Exposure controls/personal protection** No exposure indices known.

### **Recommended monitoring** procedures

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

#### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
<b>2</b> -(2-butoxyethoxy)ethanol	DNEL	Long term Oral	6.25 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	67.5 mg/m <sup>3</sup>	Workers	Local
	DAIE	Inhalation	404.0	<b>NA7</b>	1 1
	DNEL	Short term	101.2 mg/	Workers	Local
3-iodo-2-propynyl-butyl carbamate	DNEL	Inhalation Long term	m <sup>3</sup> 0.023 mg/	Workers	Systemic
3-loud-z-propyriyi-butyi carbamate	DIVEL	Inhalation	0.023 mg/	Workers	Systemic
	DNEL	Short term	0.07 mg/m <sup>3</sup>	Workers	Systemic
	5.122	Inhalation	o.o. mg/m	***************************************	System s
	DNEL	Short term	1.16 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term	1.16 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Oral	26.7 mg/	General	Systemic
	DATE		kg bw/day	population	
	DNEL	Long term	59 mg/m <sup>3</sup>	General	Systemic
	DNE	Inhalation	00/3	population	Cychamia
	DNEL	Long term Inhalation	98 mg/m³	Workers	Systemic
	DNEL	Short term	147 mg/m³	General	Local
	DIVLL	Inhalation	147 1119/111	population	Local
	DNEL	Short term	246 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	426 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m³		
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.966 mg/	Workers	Systemic
	DNE	1 4	kg bw/day	0	0
	DNEL	Long term	1.2 mg/m <sup>3</sup>	General	Systemic
	DNE	Inhalation	6 01 mg/m³	population	Systemia
	DNEL	Long term Inhalation	6.81 mg/m <sup>3</sup>	Workers	Systemic
nyrithione zinc	DNEI		0.01 mg/	Workers	Systemic
Pyriumone Zimo	DIVLE	Long term Derma	o.ormg/	VVOIRGIS	Cystellio
pyrithione zinc	DNEL	Long term Dermal	0.01 mg/	Workers	Systemic

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2-methyl-2H-isothiazol-3-one	DNEL	Long term	kg bw/day 0.021 mg/	General	Local
	DNEL	Inhalation Long term	m <sup>3</sup> 0.021 mg/	population Workers	Local
	DNEL	Inhalation Long term Oral	m³ 0.027 mg/	General	Systemic
	DNEL	Short term	kg bw/day 0.043 mg/	population General	Local
	DNEL	Inhalation Short term	m <sup>3</sup> 0.043 mg/	population Workers	Local
	DNEL	Inhalation Short term Oral	m³ 0.053 mg/	General	Systemic
		Janes Island	kg bw/day	population	2,5155

#### **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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Recommendations: Wear suitable gloves tested to EN374.

> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm Not recommended polyvinyl alcohol (PVA) gloves

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

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

**Respiratory protection** 

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

Filter type (spray application):

**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.

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

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

### 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid. Colour : Various **Odour** : Slight

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

Initial boiling point and

boiling range

Ingredient name	°C	°F	Method
water value	100	212	
2-(2-butoxyethoxy)ethanol	225 to 227.6	437 to 441.7	

**Flammability** : Not available. Lower and upper explosion : Lower: 0.8% Upper: 9.4% limit

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

**Auto-ignition temperature** 

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

**Decomposition temperature** : Not available. pН : Not available. Not available. **Viscosity** 

Solubility(ies)

Not available.

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

water

Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
water	17.5	2.3					
2-(2-butoxyethoxy)ethanol	0.022	0.0029					

**Relative density** : Not available. **Density** : 1.1 g/cm<sup>3</sup> **Vapour density** : Not available. : Not available. **Explosive properties Oxidising properties** : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

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# **SECTION 10: Stability and 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

10.1 Reactivity

: 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	-
3-iodo-2-propynyl-butyl carbamate	LC50 Inhalation Dusts and mists	Rat	0.67 g/m³	4 hours
carbamate	LC50 Inhalation Dusts and mists	Rat	0.763 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-
Ammonia	LD50 Oral	Rat	350 mg/kg	-
1,2-benzisothiazol-3(2H)- one	LD50 Oral	Rat	1020 mg/kg	-
pyrithione zinc	LC50 Inhalation Dusts and mists	Rat	140 mg/m³	4 hours
	LD50 Dermal	Rabbit	100 mg/kg	-
	LD50 Oral	Rat	177 mg/kg	-
2-Octyl-2H-isothiazol-3-one	LD50 Dermal	Rabbit	690 mg/kg	-
	LD50 Oral	Rat	550 mg/kg	-
2-methyl-2H-isothiazol- 3-one	LC50 Inhalation Dusts and mists	Rat	0.11 mg/l	4 hours

**Conclusion/Summary** 

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

#### **Acute toxicity estimates**

Route	ATE value
Inhalation (vapours)	1308.8 mg/l
Inhalation (dusts and mists)	237.33 mg/l

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug l	
3-iodo-2-propynyl-butyl carbamate	Eyes - Severe irritant	Rabbit	-	-	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
•				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Ammonia	Eyes - Severe irritant	Rabbit	-	0.5 minutes	-
				1 mg	

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	Eyes - Severe irritant	Rabbit	-	250 ug	-	
1,2-benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	48 hours 5 %	-	
2-Octyl-2H-isothiazol-3-one	Eyes - Severe irritant	Rabbit	-	100 mg	-	

**Conclusion/Summary** 

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

### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
	skin	Guinea pig	Not sensitizing

**Conclusion/Summary** 

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

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
	-	Experiment: In vitro Subject: Bacteria	Negative

**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**

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
<b>3</b> iodo-2-propynyl-butyl carbamate	Negative	-	Negative	Rabbit - Female	Oral: 20 mg/kg	13 days; 7 days per week
	Positive	-	Negative	Rabbit - Female	Oral: 50 mg/kg	13 days; 7 days per week

### **Conclusion/Summary**

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

### **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
<b>3</b> -iodo-2-propynyl-butyl carbamate	Negative - Oral	Rabbit - Female	50 mg/kg	-

**Conclusion/Summary** 

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

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Ammonia	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
3-iodo-2-propynyl-butyl carbamate pyrithione zinc	Category 1 Category 1	-	larynx -

#### **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.

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# SECTION 11: Toxicological information

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

### 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** : Not available.

**General** : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. **Reproductive toxicity** : No known significant effects or critical hazards.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

### 11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
	Acute LC50 1300000 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours
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
3-iodo-2-propynyl-butyl carbamate	Acute EC50 0.022 mg/l Fresh water	Algae - Scenedemus subspicatus	72 hours
	Acute EC50 0.16 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 0.067 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute NOEC 0.049 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.05 mg/l Fresh water	Daphnia - <i>Daphnia Magna</i>	21 days
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
Ammonia	Acute LC50 37 ppm Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours
1,2-benzisothiazol-3(2H)-one	Acute EC50 0.36 mg/l Marine water	Algae - Skeletonema Costatum	72 hours

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# **SECTION 12: Ecological information**

	Acute EC50 3.7 mg/l	Daphnia - Daphnia Magna	48 hours
	Acute LC50 1.9 mg/l Fresh water	Fish - Onorhynchus Mykiss	96 hours
	Acute NOEC 0.15 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
pyrithione zinc	Acute EC50 0.51 µg/l Marine water	Algae - Thalassiosira	96 hours
		pseudonana	
	Acute EC50 38 µg/l Fresh water	Crustaceans - Ilyocypris	48 hours
		dentifera	
	Acute EC50 8.25 ppb Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 2.68 ppb Fresh water	Fish - Pimephales promelas	96 hours
	Chronic EC10 0.36 µg/l Marine water	Algae - <i>Thalassiosira</i>	96 hours
		pseudonana	
	Chronic NOEC 2.7 ppb Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
2-Octyl-2H-isothiazol-3-one	Acute EC50 107 ppb Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 47 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 74 ppb Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 8.5 ppb	Fish - Pimephales promelas	35 days
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** : Harmful to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
7,2-benzisothiazol-3(2H)-one	EU	24 % - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>3</b> -iodo-2-propynyl-butyl carbamate	-	-	Not readily
1,2-benzisothiazol-3(2H)-one	-	-	Inherent

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>2</b> -(2-butoxyethoxy)ethanol	1	-	Low
3-iodo-2-propynyl-butyl carbamate	>1	-	Low
2-Butoxyethanol	0.81	-	Low
1,2-benzisothiazol-3(2H)-one	-	3.2	Low
pyrithione zinc	0.9	11	Low
2-Octyl-2H-isothiazol-3-one	2.45	-	Low

### **12.4 Mobility in soil**

Soil/water partition

: Not available.

coefficient (Koc)

**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.

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# 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** 

: The classification of the product may meet the criteria for a hazardous waste.

**European waste** catalogue (EWC)

: 080111\*

**Packaging** 

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

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

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.

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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.

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# **SECTION 15: Regulatory information**

: Not 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]
FEKNOPRIMER 2949-21	≥90	3
2-(2-butoxyethoxy)ethanol	≤5	55 [Consumer paint]

Labelling

Other EU regulations

**Industrial emissions** 

(integrated pollution prevention and control) -

Air

**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** 

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

organic solvents

**Czech Republic** 

Storage code : IV

**Denmark** 

**Danish fire class** : IV-1 Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
tranium dioxide	Listed	-
carbon black respirable	Listed	-

**MAL-code** : 00-3

**Protection based on MAL** 

: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

General: Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

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

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# SECTION 15: Regulatory information

MAL-code: 00-3

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

- Coveralls must be worn.

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

Arm protectors and apron must be worn.

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

- Air-supplied full mask, coveralls and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

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

\*See Regulations.

Restrictions on use

: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

List of undesirable substances

: Not listed

Carcinogenic waste

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

: Act of July 11, 1977 determining the list of activities which require reinforced

**Finland France** 

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

**RG 84** 

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Reinforced medical

surveillance

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

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

Hazard class for water

: 3

**Technical instruction on** 

: TA-Luft Number 5.2.5: 4.6%

air quality control

TA-Luft Class I - Number 5.2.5: 0.3%

medical surveillance: not applicable

**AOX** 

Germany

: The product contains organically bound halogens and can contribute to the AOX value in waste water.

Italy

: Not determined. D.Lgs. 152/06

**Netherlands** 

**Water Discharge Policy** 

(ABM)

(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ toxicity or persistence). Decontamination effort: Z

**Norway** 

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# SECTION 15: Regulatory information

**Sweden** 

**Switzerland** 

**VOC** content : VOC (w/w): 4.1%

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

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

assessment

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

Indicates information that has changed from previously issued version.

**Abbreviations and** acronyms

: ATE = Acute Toxicity Estimate

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

1272/2008]

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

EUH statement = CLP-specific Hazard statement

N/A = Not available

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

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification	
Aquatic Chronic 3, H412	Calculation method	

### Full text of abbreviated H statements

H301	Toxic if swallowed.
H302	Harmful if swallowed.
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.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

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

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

Acute Tox. 2 **ACUTE TOXICITY - Category 2** Acute Tox. 3 **ACUTE TOXICITY - Category 3** ACUTE TOXICITY - Category 4 Acute Tox. 4

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 Aquatic Acute 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Aquatic Chronic 1 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

**CARCINOGENICITY - Category 2** Carc. 2

Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Repr. 1B REPRODUCTIVE TOXICITY - Category 1B Skin Corr. 1 SKIN CORROSION/IRRITATION - Category 1 Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1 SKIN SENSITISATION - Category 1 Skin Sens. 1A SKIN SENSITISATION - Category 1A

STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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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 quarantee of the product's properties.

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