## SAFETY DATA SHEET



UVILUX 1745-02 - TS 21482 MAROON RED PANTONE 19-1327

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

1.1 Product identifier

Product name : UVILUX 1745-02 - TS 21482 MAROON RED PANTONE 19-1327

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 : Prod-safe@teknos.com

responsible for this SDS

**National contact** 

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

1.4 Emergency telephone number

**National advisory body/Poison Centre** 

Telephone number : In an emergency, call 112

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition**: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 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

Hazard pictograms





Signal word : Danger

**Hazard statements** : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage.

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention**: P280 - Wear protective gloves. Wear eye or face protection.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

Response : P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Immediately call a POISON CENTER or doctor.

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### SECTION 2: Hazards identification

### **Storage**

**Disposal** 

: Not applicable.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** 

: Contains: Dipropylenglycol diacrylate; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid; Propylidynetrimethanol, ethoxylated, esters with acrylic acid and Hexanedioic acid, polymer with (chloromethyl)oxirane, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, 4,4'-(1-methylethylidene)bis[phenol] and oxirane, 2-propenoate

Supplemental label elements

: 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

#### 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
Dipropylenglycol diacrylate	REACH #: 01-2119484629-21 EC: 260-754-3 CAS: 57472-68-1	≥25 - ≤50	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	-	[1]
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	REACH #: 01-2119490020-53 EC: 500-130-2 CAS: 55818-57-0	≥10 - <25	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	REACH #: 01-2119489900-30 EC: 500-066-5 CAS: 28961-43-5	≤10	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1]
Hexanedioic acid, polymer with (chloromethyl)oxirane, 2-ethyl-2-(hydroxymethyl) -1,3-propanediol, 4,4'- (1-methylethylidene)bis [phenol] and oxirane, 2-propenoate	CAS: 184181-05-3	≤10	Skin Sens. 1, H317	-	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤3	Carc. 2, H351 (inhalation)	-	[1] [*]
Methylbenzoylformiat	REACH #: 01-2120101338-67	≤3	Skin Sens. 1, H317	-	[1]

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#### SECTION 3: Composition/information on ingredients EC: 239-263-3 CAS: 15206-55-0 CAS: 163702-01-0 <3 Benzene, (1-methylethenyl)-Repr. 2, H361f [1] , homopolymer, ar-(2-hydroxy-2-methyl-1-oxopropyl) derivs. Phosphine oxide, phenylbis REACH #: <1 Skin Sens. 1A, H317 [1] (2,4,6-trimethylbenzoyl)-Aquatic Chronic 4, 01-2119489401-38 H413 EC: 423-340-5 CAS: 162881-26-7 Index: 015-189-00-5 (1-methyl-1,2-ethanediyl)bis REACH #: Skin Irrit. 2, H315 STOT SE 3, H335: [1] <1 [oxy(methyl-2,1-ethanediyl)] 01-2119484613-34 Eye Irrit. 2, H319 C ≥ 10% diacrylate EC: 256-032-2 Skin Sens. 1, H317 CAS: 42978-66-5 STOT SE 3, H335 Index: 607-249-00-X Aquatic Chronic 2, H411 2-Butoxyethanol REACH #: <1 Acute Tox. 4, H302 ATE [Oral] = 1200 [1] [2] 01-2119475108-36 Acute Tox. 3, H331 mg/kg Skin Irrit. 2, H315 ATE [Inhalation EC: 203-905-0 Eye Irrit. 2, H319 (vapours)] = 3 mg/l CAS: 111-76-2 Index: 603-014-00-0 4,4'-Isopropylidenediphenol, REACH #: Eye Irrit. 2, H319 [1] ≤0.3 oligomeric reaction 01-2119490020-53 Skin Sens. 1, H317 products with 1-chloro-EC: 500-130-2 2,3-epoxypropane, esters CAS: 55818-57-0 with acrylic acid Oligotriacrylate REACH #: ≤0.3 Eye Irrit. 2, H319 [1] 01-2119487948-12 Skin Sens. 1, H317 EC: 500-114-5 CAS: 52408-84-1 < 0.1 Acute Tox. 2, H330 copper bis REACH #: ATE [Inhalation [1] (dusts and mists)] (dimethyldithiocarbamate) 01-2120770993-40 Aquatic Acute 1, H400 EC: 205-287-8 = 0.12 mg/lCAS: 137-29-1 M [Acute] = 10 See Section 16 for the full text of the H

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.

- [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** 

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

statements declared

above.

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

#### Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### **Skin contact**

: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

#### Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### **Protection of first-aiders**

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> pain or irritation redness

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

#### 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

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

media

: None known.

#### 5.2 Special hazards arising from the substance or mixture

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### SECTION 5: Firefighting measures

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

halogenated compounds 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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). 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. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

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

6.4 Reference to other sections

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

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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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : 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-Butoxyethanol	Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin.  TWA 8 hours: 20 ppm.  TWA 8 hours: 98 mg/m³.  PEAK 30 minutes: 40 ppm 4 times per shift.  PEAK 30 minutes: 200 mg/m³ 4 times per shift.
copper bis(dimethyldithiocarbamate)	Regulation on Limit Values - MAC (Austria, 4/2021) [Kupfer und seine Verbindungen]  TWA 8 hours: 1 mg/m³ (measured as Cu). Form: Inhalable fraction.  PEAK 15 minutes: 4 mg/m³ (measured as Cu), 4 times per shift. Form: Inhalable fraction.  Regulation on Limit Values - MAC (Austria, 4/2021) [Kupfer und seine Verbindungen als Rauch]  TWA 8 hours: 0.1 mg/m³ (measured as Cu). Form: respirable fume.  PEAK 15 minutes: 0.4 mg/m³ (measured as Cu), 4 times per shift Form: respirable fume.

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2-Butoxyethanol Limit values (Belgium, 12/2023) Absorbed through skin.

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

2-Butoxyethanol Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed

through skin.

Limit value 8 hours: 98 mg/m³. Limit value 15 minutes: 246 mg/m³. Limit value 15 minutes: 50 ppm. Limit value 8 hours: 20 ppm.

copper bis(dimethyldithiocarbamate) Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Copper -

oxides and inorganic compounds]
Limit value 8 hours: 1 mg/m³ (as copper).

2-Butoxyethanol Ordinance on the protection of workers from exposure to

hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) Absorbed through skin.

STELV 15 minutes: 246 mg/m³. STELV 15 minutes: 50 ppm.

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

2-Butoxyethanol Department of labour inspection (Cyprus, 7/2021) Absorbed

through skin.

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

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

Republic, 12/2023) Absorbed through skin.

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

2-Butoxyethanol Working Environment Authority (Denmark, 3/2024) Absorbed

through skin.

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

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

**4/2024)** Absorbed through skin, Sensitiser.

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

copper bis(dimethyldithiocarbamate) Occupational exposure limits, Regulation No. 293 (Estonia,

4/2024) [vask ja anorgaanilised ühendid]

TWA 8 hours: 1 mg/m³ (calculated as Cu). Form: Total dust. TWA 8 hours: 0.2 mg/m³ (calculated as Cu). Form: Respirable

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dust.

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

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

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2-Butoxvethanol Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 250 mg/m<sup>3</sup>. copper bis(dimethyldithiocarbamate) Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Kupari ja sen yhdisteet] TWA 8 hours: 0.02 mg/m³ (calculated as Cu). Form: Respirable fraction. 2-Butoxyethanol Ministry of Labor (France, 6/2024) Absorbed through skin. TWA 8 hours: 10 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 49 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 246 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) (1-methyl-1,2-ethanediyl)bis[oxy(methyl-DFG MAC-values list (Germany, 7/2023) Skin sensitiser. 2,1-ethanediyl)] diacrylate 2-Butoxyethanol TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 49 mg/m<sup>3</sup>. PEAK 15 minutes: 98 mg/m<sup>3</sup>. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed through skin. TWA 8 hours: 10 ppm. PEAK 15 minutes: 20 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 49 ma/m<sup>3</sup>. PEAK 15 minutes: 98 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. DFG MAC-values list (Germany, 7/2023) [Copper and its copper bis(dimethyldithiocarbamate) inorganic compounds] Develop C. PEAK 15 minutes: 0.02 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. Form: respirable fraction. TWA 8 hours: 0.01 mg/m³. Form: respirable fraction. 2-Butoxyethanol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 120 mg/m<sup>3</sup>. 2-Butoxyethanol 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through TWA 8 hours: 98 mg/m<sup>3</sup>. PEAK 15 minutes: 246 mg/m<sup>3</sup>. PEAK 15 minutes: 50 ppm.

copper bis(dimethyldithiocarbamate)

2-Butoxyethanol

TWA 8 hours: 20 ppm. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [RÉZ és

vegyületei] TWA 8 hours: 0.1 mg/m³ (as Cu). PEAK 15 minutes: 0.2 mg/m³ (as Cu).

Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023)

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Absorbed through skin.

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

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2-Butoxyethanol NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU

derived Occupational Exposure Limit Values

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

2-Butoxyethanol Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020)

Absorbed through skin.
Limit value 8 hours: 20 ppm.
Limit value 8 hours: 98 mg/m³.
Short Term 15 minutes: 50 ppm.

Short Term 15 minutes: 246 mg/m<sup>3</sup>.

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

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

2-Butoxyethanol Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Absorbed through skin.
TWA 8 hours: 50 mg/m³.
TWA 8 hours: 10 ppm.
STEL 15 minutes: 100 mg/m³.
STEL 15 minutes: 20 ppm.

copper bis(dimethyldithiocarbamate) Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [varis

ir jo neorganiniai junginiai]

TWA 8 hours:  $0.2 \text{ mg/m}^3$  (as Cu). Form: Respirable fraction. TWA 8 hours:  $1 \text{ mg/m}^3$  (as Cu). Form: Inhalable fraction.

2-Butoxyethanol Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021) Absorbed through skin.

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

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

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

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

(Netherlands, 5/2024) Absorbed through skin.

TWA 8 hours: 100 mg/m³. STEL 15 minutes: 246 mg/m³. TWA 8 hours: 20.4 ppm. STEL 15 minutes: 50 ppm.

copper bis(dimethyldithiocarbamate) Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 5/2024) [koper en anorganische

koperverbindingen]

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

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

TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³.

2-Butoxyethanol Regulation of the Minister of Family, Labor and Social Policy

of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland,

**8/2023)** Absorbed through skin. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 200 mg/m³.

copper bis(dimethyldithiocarbamate) Regulation of the Minister of Family, Labor and Social Policy

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2-Butoxyethanol

of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) [copper and its inorganic compounds]

TWA 8 hours: 0.2 mg/m³ (calculated as Cu).

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

TWA 8 hours: 20 ppm.

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

VLA 8 hours: 98 mg/m³. VLA 8 hours: 20 ppm.

Short term 15 minutes: 246 mg/m³. Short term 15 minutes: 50 ppm.

2-Butoxyethanol Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Absorbed through skin, Inhalation sensitiser.

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

copper bis(dimethyldithiocarbamate) Government regulation SR c. 355/2006 (Slovakia, 7/2024) [meď

a jej anorganické zlúčeniny] Inhalation sensitiser.

TWA 8 hours: 1 mg/m³ (Copper and its inorganic compounds, as Cu). Form: Inhalable fraction.

TWA 8 hours: 0.2 mg/m³ (Copper and its inorganic compounds, as Cu). Form: respirable fraction and fumes.

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

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

KTV 15 minutes: 246 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

2-Butoxyethanol National institute of occupational safety and health (Spain,

1/2024) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m³. STEL 15 minutes: 245 mg/m³. STEL 15 minutes: 50 ppm.

copper bis(dimethyldithiocarbamate)

National institute of occupational safety and health (Spain,

1/2024) [compuestos de cobre]

TWA 8 hours: 0.01 mg/m³ (as Cu). Form: Respirable fraction.

2-Butoxyethanol

Work environment authority Regulation 2018:1 (Sweden,

11/2022) Absorbed through skin.

TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m³.

copper bis(dimethyldithiocarbamate) Work environment authority Regulation 2018:1 (Sweden,

11/2022) [copper and inorganic compounds]

TWA 8 hours: 0.01 mg/m³ (as Cu). Form: respirable fraction.

2-Butoxyethanol SUVA (Switzerland, 1/2024) Absorbed through skin.

TWA 8 hours: 10 ppm. TWA 8 hours: 49 mg/m³. STEL 15 minutes: 20 ppm. STEL 15 minutes: 98 mg/m³.

copper bis(dimethyldithiocarbamate) SUVA (Switzerland, 1/2024) [Kupfer und seine anorganischen

Verbindungen]

TWA 8 hours: 0.1 mg/m³ (As Cu calculated). Form: Inhalable

fraction.

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STEL 15 minutes: 0.2 mg/m³ (As Cu calculated). Form: Inhalable fraction.

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

through skin. STEL 15 minutes: 50 ppm.

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

EH40/2005 WELs (United Kingdom (UK), 1/2020) [Copper and copper bis(dimethyldithiocarbamate) compounds]

> STEL 15 minutes: 2 mg/m³ (as Cu). Form: Dusts and Mists. TWA 8 hours: 1 mg/m³ (as Cu). Form: Dusts and Mists.

#### **Biological exposure indices**

2-Butoxyethanol

Product/ingredient name	Exposure indices
No exposure indices known.	
2-Butoxyethanol	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)  Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.  Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.
No exposure indices known.	
2-Butoxyethanol	Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023) [2-butoxyethanol and its acetate] BLV: 100 mg/g Cr, 2-butoxyacetic acid [in urine]. Sampling time: end of shift (regardless of the day of the week).
2-Butoxyethanol	DFG BEI-values list (Germany, 7/2023) Notes: danger from percutaneous absorption (see p. 211 and p. 228).  BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts.  TRGS 903 - BEI Values (Germany, 2/2024)  BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts.
copper bis(dimethyldithiocarbamate)	DFG BEI-values list (Germany, 7/2023) [Copper and its inorganic compounds]  BEI: See Section XV.2: For the following substances currently no BAR may be derived, but there is documentation in the "Occupational medicine and toxicology Justifications for BAT values, EKA, BLW, and BAR", copper [in urine]. Sampling time: Sample time not specified.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	

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2-Butoxyethanol

NAOSH (Ireland, 1/2011)

No exposure indices known.

2-Butoxyethanol

No exposure indices known.

No exposure indices known.

2-Butoxyethanol

2-Butoxyethanol

No exposure indices known.

2-Butoxyethanol

procedures

2-Butoxyethanol

**Recommended monitoring** 

Portuguese Institute of Quality (Portugal, 11/2014)

shift - As soon as possible after exposure ceases.

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

BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end of

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

BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.

National institute of occupational safety and health (Spain, 1/2024)

VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling time: end of shift.

SUVA (Switzerland, 1/2024)

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.

EH40/2005 BMGVs (United Kingdom (UK), 1/2020)

BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.

: 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** 

Dipropylenglycol diacrylate

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Result

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

1.7 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

2.35 mg/m³ Effects: Systemic

4,4'-Isopropylidenediphenol, oligomeric DNEL - Workers - Long term - Inhalation

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reaction products with 1-chloro- 1.17 mg/m<sup>3</sup>

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2,3-epoxypropane, esters with acrylic acid

Effects: Systemic

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

33 mg/kg bw/day Effects: Systemic

Propylidynetrimethanol, ethoxylated, esters

with acrylic acid

(2,4,6-trimethylbenzoyl)-

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

10.5 mg/kg bw/day Effects: Systemic

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

37 mg/m<sup>3</sup>

Effects: Systemic

titanium dioxide DNEL - General population - Long term - Inhalation

> 28 μg/m<sup>3</sup> Effects: Local

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

170 µg/m<sup>3</sup> Effects: Local

Benzene, (1-methylethenyl)-, homopolymer, ar-(2-hydroxy-2-methyl-1-oxopropyl) derivs.

DNEL - General population - Long term - Oral

5.28 µg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Dermal

5.28 µg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

9.18 µg/m<sup>3</sup> Effects: Systemic

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

14.8 µg/kg bw/day Effects: Systemic

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

52.1 µg/m<sup>3</sup> Effects: Systemic

Phosphine oxide, phenylbis **DNEL - Workers - Long term - Inhalation** 

21 ma/m<sup>3</sup>

Effects: Systemic

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

21 ma/m<sup>3</sup>

Effects: Systemic

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

3.3 mg/kg

Effects: Systemic

**DNEL - Workers - Short term - Dermal** 

3.3 mg/kg

Effects: Systemic

DNEL - General population - Consumers - Long term -

Inhalation 5.2 mg/m<sup>3</sup>

Effects: Systemic

DNEL - General population - Consumers - Long term -

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**Dermal** 

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Effects: Systemic

#### DNEL - General population - Consumers - Long term - Oral

1.5 mg/kg

Effects: Systemic

#### DNEL - General population - Short term - Oral

1.67 ng/kg bw/day Effects: Systemic

#### DNEL - General population - Long term - Oral

1.5 mg/kg bw/day Effects: Systemic

#### **DNEL - General population - Long term - Dermal**

1.5 mg/kg bw/day Effects: Systemic

#### DNEL - General population - Short term - Dermal

1.67 mg/kg bw/day Effects: Systemic

#### DNEL - General population - Short term - Inhalation

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

#### DNEL - General population - Long term - Inhalation

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

#### DNEL - Workers - Long term - Dermal

3 mg/kg bw/day Effects: Systemic

#### **DNEL - Workers - Short term - Dermal**

3.33 mg/kg bw/day Effects: Systemic

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

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

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

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

#### (1-methyl-1,2-ethanediyl)bis[oxy(methyl-**DNEL - Workers - Long term - Dermal**

1.7 mg/kg bw/day Effects: Systemic

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

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

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

6.3 mg/kg bw/day Effects: Systemic

#### DNEL - General population - Short term - Oral

26.7 mg/kg bw/day Effects: Systemic

#### DNEL - General population - Long term - Inhalation

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

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2,1-ethanediyl)] diacrylate

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Effects: Systemic

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

98 mg/m<sup>3</sup>

Effects: Systemic

DNEL - General population - Short term - Inhalation

147 mg/m³ <u>Effects</u>: Local

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

246 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

426 mg/m³ Effects: Systemic

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

1091 mg/m³ Effects: Systemic

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-

2,3-epoxypropane, esters with acrylic acid

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

1.17 mg/m³ Effects: Systemic

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

33 mg/kg bw/day Effects: Systemic

Oligotriacrylate DNEL - Workers - Long term - Dermal

2.1 mg/kg bw/day Effects: Systemic

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

7.4 mg/m<sup>3</sup>

Effects: Systemic

#### **PNECs**

Not available.

#### 8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **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. Contaminated work clothing should not be allowed out of the workplace. 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

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#### **Skin protection**

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#### **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.

< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm

1 - 4 hours (breakthrough time): 4H / Silver Shield® 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:

Filter type (spray application):

#### **Environmental exposure** controls

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

### SECTION 9: Physical and chemical properties

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

### 9.1 Information on basic physical and chemical properties

#### **Appearance**

**Physical state** : Liquid. Colour Various Odour Slight : Not available. **Odour threshold** 

Melting point/freezing point : Not available.

Initial boiling point and

boiling range

Ingredient name	°C	°F	Method
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	>391	>735.8	OECD 103

**Flammability** Not available.

: Lower: Not applicable. Lower and upper explosion limit Upper: Not applicable.

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

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
Dipropylenglycol diacrylate	240	464	DIN 51794
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	465	869	EU A.15

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

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

Viscosity : Not available.

Solubility(ies) :

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure :

	Vapour Pressure at 20°C			V	Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
Dipropylenglycol diacrylate	0.00064	0.000085	OECD 104				
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	0.000024	0.0000032	OECD 104				

Relative density : Not available.

Density : 1.3 g/cm³

Vapour density : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

#### 9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.

Oxidising properties : Not available.

9.2.2 Other safety characteristics

Not applicable.

### **SECTION 10: Stability and reactivity**

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

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products

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

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

Dipropylenglycol diacrylate Rat - Oral - LD50 4600 mg/kg

<u>Toxic effects</u>: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Gastrointestinal - Hypermotility,

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diarrhea

Propylidynetrimethanol, ethoxylated, esters Rabbit - Dermal - LD50

with acrylic acid >13 g/kg

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Phosphine oxide, phenylbis Rat - Oral - LD50 (2,4,6-trimethylbenzoyl)->2000 mg/kg

OECD [Acute Oral Toxicity]

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-Rat - Oral - LD50

2,1-ethanediyl)] diacrylate 6200 mg/kg

Toxic effects: Eye - Ptosis Lung, Thorax, or Respiration -

Respiratory depression Other - Hair

copper bis(dimethyldithiocarbamate) Rat - Oral - LD50

>5000 mg/kg

Rabbit - Dermal - LD50

>2000 mg/kg

Rat - Inhalation - LC50 Dusts and mists

0.12 mg/l [4 hours]

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

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
UVILUX 1745-02	N/A	N/A	N/A	827.4	N/A
Dipropylenglycol diacrylate	4600	N/A	N/A	N/A	N/A
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-	6200	N/A	N/A	N/A	N/A
2,1-ethanediyl)] diacrylate					
2-Butoxyethanol	1200	N/A	N/A	3	N/A
copper bis(dimethyldithiocarbamate)	N/A	N/A	N/A	N/A	0.12

#### Skin corrosion/irritation

Product/ingredient name Result

Dipropylenglycol diacrylate Rabbit - Skin - Severe irritant

Amount/concentration applied: 500 mg

Propylidynetrimethanol, ethoxylated, esters Rabbit - Skin - Moderate irritant

with acrylic acid Amount/concentration applied: 500 mg

titanium dioxide Human - Skin - Mild irritant

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

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-Rabbit - Skin - Moderate irritant

2,1-ethanediyl)] diacrylate Amount/concentration applied: 500 mg

2-Butoxyethanol Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

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

Serious eye damage/eye irritation

**Product/ingredient name** Result

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Dipropylenglycol diacrylate Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

Propylidynetrimethanol, ethoxylated, esters Rabbit - Eyes - Moderate irritant

with acrylic acid

Amount/concentration applied: 100 mg

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-

2,1-ethanediyl)] diacrylate

Rabbit - Eyes - Severe irritant

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

2-Butoxyethanol Rabbit - Eyes - Moderate irritant

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

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

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

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

Not available.

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

#### Respiratory or skin sensitization

Product/ingredient name Result

Phosphine oxide, phenylbis Guinea pig - skin

(2,4,6-trimethylbenzoyl)- OECD [Skin Sensitization]

Result: Sensitising

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

### **Germ cell mutagenicity**

Product/ingredient name

Phosphine oxide, phenylbis
(2,4,6-trimethylbenzoyl)
Result

Bacteria
Result: Negative

Conclusion/Summary [Product] : Not available.

#### **Carcinogenicity**

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

Not available.

Conclusion/Summary [Product] : Not available.

Ingredient name Conclusion/Summary
Phosphine oxide, phenylbis No results available.
(2,4,6-trimethylbenzoyl)-

#### Reproductive toxicity

Not available.

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Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name Result

(1-methyl-1,2-ethanediyl)bis[oxy(methyl- STOT SE 3, H335 (Respiratory tract irritation)

2,1-ethanediyl)] diacrylate

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

#### Information on likely routes of exposure

Not available.

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.

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

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Inhalation** : No specific data.

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion** : Adverse symptoms may include the following:

stomach pains

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

**Short term exposure** 

Potential immediate

effects

: Not available.

Potential delayed effects : I

: Not available.

**Long term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Not available.

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

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

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

#### 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

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**Conclusion/Summary [Product]** 

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

#### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

#### 12.1 Toxicity

#### Product/ingredient name

titanium dioxide

### Result

#### Acute - LC50 - Marine water

Fish - Mummichog - Fundulus heteroclitus

>1000000 µg/l [96 hours]

Effect: Mortality

#### Acute - LC50 - Fresh water

Crustaceans - Water flea - Ceriodaphnia dubia - Neonate

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

Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-

#### Acute - LC50

OECD [Fish, Acute Toxicity Test]

Fish - Brachydanio rerio >0.09 mg/l [96 hours]

#### Acute - EC50

Daphnia sp. Acute Immobilization Test and Reproduction Test Daphnia - Daphnia magna >1.175 mg/l [48 hours]

#### **EC50**

Alga. Growth Inhibition Test

Aquatic plants - Desmodesmus subspicatus

≥0.26 mg/l [72 hours]

#### **NOEC - Fresh water**

OECD [Daphnia Magna Reproduction Test]

Daphnia - Daphnia magna ≥0.008 mg/l [21 days]

#### 2-Butoxyethanol

#### Acute - LC50 - Marine water

Fish - Inland silverside - Menidia beryllina

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

#### Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - Crangon

crangon

800000 µg/l [48 hours] Effect: Mortality

copper bis(dimethyldithiocarbamate)

#### Acute - LC50 - Fresh water

Fish - Fathead minnow - Pimephales promelas

Size: 38 to 64 mm; Weight: 1 to 2 g

71 µg/l [96 hours] Effect: Mortality

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

### 12.2 Persistence and degradability

Not available.

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Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	-	-	Readily
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	-	-	Not readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Dipropylenglycol diacrylate 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-	0.01 to 0.39 1.6 to 3	-	Low Low
2,3-epoxypropane, esters with acrylic acid Propylidynetrimethanol,	2.89		Low
ethoxylated, esters with acrylic acid	2.09	-	Low
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	5.77	<5	Low
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	2	-	Low
2-Butoxyethanol	0.81	-	Low
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	1.6 to 3	-	Low
Oligotriacrylate	2.52	-	Low

### 12.4 Mobility in soil

### Soil/water partition coefficient

Product/ingredient name	logKoc	Koc
Methylbenzoylformiat	1.59	38.9998
Phosphine oxide, phenylbis	5.04	108908
(2,4,6-trimethylbenzoyl)-		
[( · ···- i · · · · · · · · · · · · · · ·	2.9	803.136
2,1-ethanediyl)] diacrylate		
2-Butoxyethanol		67.3685
copper bis(dimethyldithiocarbamate)	1.77	59.2181

#### Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	M	Т	vPvM	νP	vM
Dipropylenglycol diacrylate	No	No	No	No	No	No	No
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	No	No	No	No	No	No	No
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	No	No	No	No	No	No	No
Hexanedioic acid, polymer with (chloromethyl)oxirane, 2-ethyl-2-(hydroxymethyl) -1,3-propanediol, 4,4'- (1-methylethylidene)bis	No	No	No	No	No	No	No

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[phenol] and oxirane,							
2-propenoate							
titanium dioxide	No						
Methylbenzoylformiat	No						
Benzene, (1-methylethenyl)-,	No						
homopolymer, ar-(2-hydroxy-							
2-methyl-1-oxopropyl) derivs.							
Phosphine oxide, phenylbis	No						
(2,4,6-trimethylbenzoyl)-							
(1-methyl-1,2-ethanediyl)bis	No						
[oxy(methyl-2,1-ethanediyl)]							
diacrylate							
2-Butoxyethanol	No						
4,4'-Isopropylidenediphenol,	No						
oligomeric reaction products							
with 1-chloro-							
2,3-epoxypropane, esters							
with acrylic acid							
Oligotriacrylate	No						
copper bis	No						
(dimethyldithiocarbamate)							

**Mobility** 

: Not available.

**Conclusion/Summary** 

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

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

Product/ingredient name	PBT	P	В	T	vPvB	vP	vB
Dipropylenglycol diacrylate	No	No	No	No	No	No	No
4,4'-Isopropylidenediphenol,	No	No	No	No	No	No	No
oligomeric reaction products							
with 1-chloro-							
2,3-epoxypropane, esters							
with acrylic acid							
Propylidynetrimethanol,	No	No	No	No	No	No	No
ethoxylated, esters with							
acrylic acid							
Hexanedioic acid, polymer	No	No	No	No	No	No	No
with (chloromethyl)oxirane,							
2-ethyl-2-(hydroxymethyl)							
-1,3-propanediol, 4,4'-							
(1-methylethylidene)bis							
[phenol] and oxirane,							
2-propenoate titanium dioxide	No	No	No	No	No	No	No
Methylbenzoylformiat	No	No	No	No	No	No	No
Benzene, (1-methylethenyl)-,	No	No	No	No	No	No	No
homopolymer, ar-(2-hydroxy-	INO	INO	NO	INO	INO	NO	NO
2-methyl-1-oxopropyl) derivs.							
Phosphine oxide, phenylbis	No	No	No	No	No	No	No
(2,4,6-trimethylbenzoyl)-	110	110	110	140	140	110	
(1-methyl-1,2-ethanediyl)bis	No	No	No	No	No	No	No
[oxy(methyl-2,1-ethanediyl)]							
diacrylate							
2-Butoxyethanol	No	No	No	No	No	No	No
4,4'-Isopropylidenediphenol,	No	No	No	No	No	No	No
oligomeric reaction products							
with 1-chloro-							
2,3-epoxypropane, esters							
with acrylic acid							
Oligotriacrylate	No	No	No	No	No	No	No
copper bis	No	No	No	No	No	No	No
(dimethyldithiocarbamate)							

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

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Product/ingredient name	PBT	P	В	Т	vPvB	vP	vB
Dipropylenglycol diacrylate	No	No	No	No	No	No	No
4,4'-Isopropylidenediphenol,	No	No	No	No	No	No	No
oligomeric reaction products							
with 1-chloro-							
2,3-epoxypropane, esters							
with acrylic acid							
Propylidynetrimethanol,	No	No	No	No	No	No	No
ethoxylated, esters with							
acrylic acid							
Hexanedioic acid, polymer	No	No	No	No	No	No	No
with (chloromethyl)oxirane,							
2-ethyl-2-(hydroxymethyl)							
-1,3-propanediol, 4,4'-							
(1-methylethylidene)bis							
[phenol] and oxirane,							
2-propenoate							
titanium dioxide	No	No	No	No	No	No	No
Methylbenzoylformiat	No	No	No	No	No	No	No
Benzene, (1-methylethenyl)-,	No	No	No	No	No	No	No
homopolymer, ar-(2-hydroxy-							
2-methyl-1-oxopropyl) derivs.							
Phosphine oxide, phenylbis	No	No	No	No	No	No	No
(2,4,6-trimethylbenzoyl)-							
(1-methyl-1,2-ethanediyl)bis	No	No	No	No	No	No	No
[oxy(methyl-2,1-ethanediyl)]							
diacrylate	NI.	N.I.	N.I.	N.I.		N.I.	N.L.
2-Butoxyethanol	No	No	No	No	No	No	No
4,4'-Isopropylidenediphenol,	No	No	No	No	No	No	No
oligomeric reaction products							
with 1-chloro-							
2,3-epoxypropane, esters							
with acrylic acid	No	No	No	No	No	No	No
Oligotriacrylate copper bis	No	No No	No No	No No	No	No	No No
(dimethyldithiocarbamate)	INU	INO	INU	INO	INO	INO	INU
(diffetifyiditillocalbaffiate)		Tla a al a					DDTD-D

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

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

#### 12.6 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** 

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

#### 12.7 Other adverse effects

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.

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### SECTION 13: Disposal considerations

**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.

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]
UVILUX 1745-02	≥90	3

Labelling

Other EU regulations

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### SECTION 15: Regulatory information

: Not listed **Industrial emissions** (integrated pollution

prevention and control) -

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Water

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

Not listed.

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

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

**National regulations** 

**Austria** 

Limitation of the use of

: Permitted.

organic solvents

**Belgium** 

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

Ingredient name	Status
Noirs de charbon	Listed
Silice	Listed

**Czech Republic** 

Storage code : IV

**Denmark** 

Fire class : IV-1 Executive Order No. 1795/2015

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

**MAL-code** : 0-5

**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: 0-5

Application: When using scraper or knife, brush, roller etc. for pre- and posttreatments in a spray booth where the operator is outside the spray zone and when working in similar new\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new\* booths and cabins with non-atomizing guns. 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. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Protective clothing must be worn.

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

- Air-supplied full mask and protective clothing must be worn.

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

- Gas filter mask and protective clothing 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, protective clothing and hood must be worn.

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

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

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

\*See Regulations.

Restrictions on use

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

List of undesirable substances

: Not listed

Carcinogenic waste

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

**Finland France** 

Social Security Code, Articles L 461-1 to L 461-7

**RG 84** : (1-methyl-1,2-ethanediyl)bis[oxy(methyl-

2,1-ethanediyl)] diacrylate

**RG 84** 2-Butoxyethanol

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 : 2

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

#### Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5.2.1	Total dust	23.6
5.2.2 [III]	Dusty inorganic substances	0.036
5.2.5	Organic substances	76.4
5.2.5 [I]	Organic substances	3

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

value in waste water.

<u>Italy</u>

D.Lgs. 152/06 : Not determined.

**Netherlands** 

**Water Discharge Policy** 

(ABM)

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

aguatic environment. Decontamination effort: A

Norway
Sweden
Switzerland

VOC content : Exempt.

**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.

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
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

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

#### Full text of abbreviated H statements

H302	Harmful if swallowed.
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.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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

Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
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
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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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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