## SAFETY DATA SHEET



UVILUX 1745-02 - RILLETOP TS 21132 BORDEAUX

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

1.1 Product identifier

Product name : UVILUX 1745-02 - RILLETOP TS 21132 BORDEAUX

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 2, H411

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.

H411 - Toxic 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.

Response : P391 - Collect spillage.

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; Hexamethylene diacrylate; pentaerythritol tetraacrylate and Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Supplemental label elements

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

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

breathe spray or mist.

2.3 Other hazards

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

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

Other hazards which do not result in classification : None known.

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

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
<b>Ø</b> ipropylenglycol diacrylate	REACH #: 01-2119484629-21 EC: 260-754-3 CAS: 57472-68-1	≥10 - ≤25	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	-	[1]
Hexamethylene diacrylate	REACH #: 01-2119484737-22 EC: 235-921-9 CAS: 13048-33-4 Index: 607-109-00-8	≥10 - ≤24	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M [Acute] = 1	[1]
pentaerythritol tetraacrylate	CAS: 917379-62-5	≥10 - ≤23	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg	[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]
2-hydroxy- 2-methylpropiophenone	REACH #: 01-2119472306-39 EC: 231-272-0 CAS: 7473-98-5	≤5	Acute Tox. 4, H302 Aquatic Chronic 3, H412	ATE [Oral] = 1694 mg/kg	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤5	Carc. 2, H351 (inhalation)	-	[1] [*]
Phosphine oxide, phenylbis	REACH #:	≤3	Skin Sens. 1A, H317	-	[1]

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

SECTION 3. Compo	Sition/illioilliat		gredients		
(2,4,6-trimethylbenzoyl)-	01-2119489401-38 EC: 423-340-5 CAS: 162881-26-7 Index: 015-189-00-5		Aquatic Chronic 4, H413		
Methylbenzoylformiat	REACH #: 01-2120101338-67 EC: 239-263-3 CAS: 15206-55-0	≤3	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	≤3	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
Benzene, (1-methylethenyl)-, homopolymer, ar- (2-hydroxy-2-methyl- 1-oxopropyl) derivs.	CAS: 163702-01-0	<3	Repr. 2, H361f	-	[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	<1	Skin Sens. 1, H317	-	[1]
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	REACH #: 01-2119484613-34 EC: 256-032-2 CAS: 42978-66-5 Index: 607-249-00-X	<1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411	STOT SE 3, H335: C ≥ 10%	[1]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	<1	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]
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	≤0.3	Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Oligotriacrylate	REACH #: 01-2119487948-12 EC: 500-114-5 CAS: 52408-84-1	≤0.3	Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
copper bis (dimethyldithiocarbamate)	REACH #: 01-2120770993-40 EC: 205-287-8 CAS: 137-29-1	≤0.027	Acute Tox. 2, H330 Aquatic Acute 1, H400	ATE [Inhalation (dusts and mists)] = 0.12 mg/l M [Acute] = 10	[1]
			See Section 16 for the full text of the H statements declared above.		

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### SECTION 3: Composition/information on ingredients

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

- [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.

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

### **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:

> 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

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

#### 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 toxic 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 phosphorus oxides 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. Collect spillage.

#### 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). 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. 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.

#### Seveso Directive - Reporting thresholds

#### **Danger criteria**

— — — — — — — — — — — — — — — — — — —	Notification and MAPP threshold	Safety report threshold
E2	200 tonne	500 tonne

### 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

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s. per shift, 5 minutes. s per shift, 5 minutes. s per shift, 5 minutes. ues - MAC (Austria, 4/2021). [] ed as Cu) 8 hours. Form: Inhalable red as Cu), 4 times per shift, 15 minutes. ured as Cu) 8 hours. Form: respirable sured as Cu), 4 times per shift, 15 fume //2021). Absorbed through skin. s. tes. hutes. Social Policy and the Ministry of 3/2003. (Bulgaria, 6/2021). Absorbed
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2-Methoxy-1-methylethyl acetate Working Environment Authority (Denmark, 6/2022). [2-Methoxy-1-methylethyl acetate] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 550 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 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. 2-Methoxy-1-methylethyl acetate Occupational exposure limits, Regulation No. 293 (Estonia, 10/2019). Absorbed through skin. Skin sensitiser. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. TWA: 275 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. copper bis(dimethyldithiocarbamate) Occupational exposure limits, Regulation No. 293 (Estonia, 10/2019). [] TWA: 0.2 mg/m³, (calculated as Cu) 8 hours. Form: Respirable TWA: 1 mg/m³, (calculated as Cu) 8 hours. Form: Total dust 2-Methoxy-1-methylethyl acetate EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 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. 2-Methoxy-1-methylethyl acetate Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 270 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes. Institute of Occupational Health, Ministry of Social Affairs copper bis(dimethyldithiocarbamate) (Finland, 9/2020). [] TWA: 0.02 mg/m³, (calculated as Cu) 8 hours. Form: Respirable

2-Methoxy-1-methylethyl acetate

Mexamethylene diacrylate (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate 2-Methoxy-1-methylethyl acetate

Ministry of Labor (France, 5/2021). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL: 550 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 275 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.

DFG MAC-values list (Germany, 10/2021). Skin sensitiser. DFG MAC-values list (Germany, 10/2021). Skin sensitiser.

TRGS 900 OEL (Germany, 7/2021).

TWA: 270 mg/m<sup>3</sup> 8 hours. PEAK: 270 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. PEAK: 50 ppm 15 minutes.

DFG MAC-values list (Germany, 10/2021).

TWA: 50 ppm 8 hours.

PEAK: 50 ppm, 4 times per shift, 15 minutes.

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copper bis(dimethyldithiocarbamate)

TWA: 270 mg/m<sup>3</sup> 8 hours.

PEAK: 270 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.

DFG MAC-values list (Germany, 10/2021). [Copper and its inorganic compounds]

PEAK: 0.02 mg/m³, 4 times per shift, 15 minutes. Form:

respirable fraction

TWA: 0.01 mg/m<sup>3</sup> 8 hours. Form: respirable fraction

2-Methoxy-1-methylethyl acetate

Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin.

TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes.

2-Butoxyethanol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin.

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

2-Methoxy-1-methylethyl acetate

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

TWA: 275 mg/m<sup>3</sup> 8 hours. PEAK: 550 mg/m<sup>3</sup> 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.

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

TWA: 98 mg/m<sup>3</sup> 8 hours. PEAK: 246 mg/m³ 15 minutes. PEAK: 50 ppm 15 minutes. TWA: 20 ppm 8 hours.

copper bis(dimethyldithiocarbamate)

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [Copper and its compounds]

TWA: 0.1 mg/m<sup>3</sup>, (as Cu) 8 hours. PEAK: 0.2 mg/m<sup>3</sup>, (as Cu) 15 minutes.

2-Methoxy-1-methylethyl acetate

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

STEL: 550 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 275 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.

2-Methoxy-1-methylethyl acetate

NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values

OELV-8hr: 50 ppm 8 hours. OELV-8hr: 275 mg/m<sup>3</sup> 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 550 mg/m³ 15 minutes.

NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU 2-Butoxyethanol derived Occupational Exposure Limit Values

OELV-8hr: 20 ppm 8 hours. OELV-8hr: 98 mg/m<sup>3</sup> 8 hours. OELV-15min: 50 ppm 15 minutes. OELV-15min: 246 mg/m<sup>3</sup> 15 minutes.

2-Methoxy-1-methylethyl acetate

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

8 hours: 50 ppm 8 hours. 8 hours: 275 mg/m<sup>3</sup> 8 hours. Short Term: 100 ppm 15 minutes. Short Term: 550 mg/m3 15 minutes.

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

8 hours: 20 ppm 8 hours. 8 hours: 98 mg/m<sup>3</sup> 8 hours. Short Term: 50 ppm 15 minutes.

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2-Methoxy-1-methylethyl acetate

Short Term: 246 mg/m3 15 minutes.

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

TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m3 15 minutes.

2-Butoxyethanol

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

Absorbed through skin.

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

2-Methoxy-1-methylethyl acetate

Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2021).

Absorbed through skin.

TWA: 250 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 400 mg/m<sup>3</sup> 15 minutes. STEL: 75 ppm 15 minutes.

copper bis(dimethyldithiocarbamate)

Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2021). []

TWA: 0.2 mg/m<sup>3</sup>, (as Cu) 8 hours. Form: Respirable fraction TWA: 1 mg/m<sup>3</sup>, (as Cu) 8 hours. Form: Inhalable fraction

2-Methoxy-1-methylethyl acetate

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

TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 15 minutes.

2-Methoxy-1-methylethyl acetate

EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values

TWA: 50 ppm 8 hours. TWA: 275 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m<sup>3</sup> 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.

2-Methoxy-1-methylethyl acetate

Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 7/2021).

OEL, 8-h TWA: 550 mg/m<sup>3</sup> 8 hours.

copper bis(dimethyldithiocarbamate)

Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 7/2021). []

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

2-Methoxy-1-methylethyl acetate

FOR-2011-12-06-1358 (Norway, 6/2021). Absorbed through

skin. Notes: indicative limit value

TWA: 50 ppm 8 hours. TWA: 270 mg/m<sup>3</sup> 8 hours.

2-Methoxy-1-methylethyl acetate

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

TWA: 260 mg/m<sup>3</sup> 8 hours. STEL: 520 mg/m<sup>3</sup> 15 minutes.

copper bis(dimethyldithiocarbamate)

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). [copper and its inorganic compounds]

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2-Methoxy-1-methylethyl acetate

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

EU OEL (Europe, 10/2019). Absorbed through skin. Notes: list of indicative occupational exposure limit values

TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.

2-Methoxy-1-methylethyl acetate

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin.

VLA: 275 mg/m³ 8 hours. VLA: 50 ppm 8 hours.

Short term: 550 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes.

2-Methoxy-1-methylethyl acetate

Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin.

TWA: 275 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 550 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.

copper bis(dimethyldithiocarbamate)

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

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

hours. Form: Inhalable fraction

TWA: 0.2 mg/m³, (Copper and its inorganic compounds, as Cu) 8

hours. Form: respirable fraction and fumes

2-Methoxy-1-methylethyl acetate

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

TWA: 275 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.

KTV: 550 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes.

2-Methoxy-1-methylethyl acetate

National institute of occupational safety and health (Spain, 4/2021). Absorbed through skin.

TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.

copper bis(dimethyldithiocarbamate)

2-Methoxy-1-methylethyl acetate

National institute of occupational safety and health (Spain, 4/2021). []

TWA: 0.01 mg/m³, (as Cu) 8 hours. Form: Respirable fraction **Work environment authority Regulation 2018:1 (Sweden,** 

9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.

TWA: 275 mg/m³ 8 hours.

STEL: 100 ppm 15 minutes.

STEL: 550 mg/m³ 15 minutes.

copper bis(dimethyldithiocarbamate) Work environment authority Regulation 2018:1 (Sweden, 9/2021). [copper and inorganic compounds]

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

2-Methoxy-1-methylethyl acetate

SUVA (Switzerland, 1/2021).

TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 275 mg/m³ 15 minutes.

SUVA (Switzerland, 1/2021). []

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

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

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copper bis(dimethyldithiocarbamate)

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<u> </u>	<u> </u>
2-Methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 548 mg/m³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 274 mg/m³ 8 hours.
	STEL: 100 ppm 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/m³ 15 minutes.
	TWA: 123 mg/m³ 8 hours.
2-ethylhexan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 5.4 mg/m³ 8 hours.
	TWA: 1 ppm 8 hours.
n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 966 mg/m³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m³ 8 hours.
	TWA: 150 ppm 8 hours.
copper bis(dimethyldithiocarbamate)	EH40/2005 WELs (United Kingdom (UK), 1/2020). [Copper and
	compounds]
	STEL: 2 mg/m³, (as Cu) 15 minutes. Form: Dusts and Mists
	TWA: 1 mg/m³, (as Cu) 8 hours. Form: Dusts and Mists
Toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 384 mg/m³ 15 minutes.
	TWA: 191 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.

### **Biological exposure indices**

Product/ingredient name	Exposure indices
No exposure indices known.	
<b>Z</b> -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.	

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2-Butoxyethanol	NAOSH (Ireland, 1/2011)
	BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end of
	shift - As soon as possible after exposure ceases.
No exposure indices known.	

## 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
propylenglycol diacrylate	DNEL	Long term Dermal	1.66 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Oral	2.08 mg/	General	Systemic
	5.15		kg bw/day	population	
	DNEL	Long term Dermal	2.77 mg/	Workers	Systemic
	DNEL	Long term	kg bw/day 7.24 mg/m³	General	Systemic
	DINEL	Inhalation	7.24 mg/m	population	Systemic
	DNEL	Long term	24.48 mg/	Workers	Systemic
	DIVLE	Inhalation	m <sup>3</sup>	Workoro	Gyotomio
Hexamethylene diacrylate	DNEL	Long term	7.2 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	-
	DNEL	Long term Dermal	1.66 mg/	General	Systemic
	5		kg bw/day	population	
	DNEL	Long term Oral	2.1 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 2.77 mg/	population Workers	Systemic
	DINEL	Long term Dermai	kg bw/day	VVOIKEIS	Systemic
	DNEL	Long term	24.5 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
Propylidynetrimethanol, ethoxylated,	DNEL	Long term Dermal	10.5 mg/	Workers	Systemic
esters with acrylic acid			kg bw/day		_
	DNEL	Long term	37 mg/m³	Workers	Systemic
2 hydrayy 2 mathylpropionk	DNE	Inhalation	1 ma/ka	Morkoro	Cuatamia
2-hydroxy-2-methylpropiophenone	DNEL	Long term Dermal	1 mg/kg	Workers	Systemic

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		T			1
			bw/day		
	DNEL	Long term Oral	0.4 mg/kg	General	Systemic
		_	bw/day	population	_
	DNEL	Long term Dermal	0.5 mg/kg	General	Systemic
		==:::9 :=::::=	bw/day	population	
	DNE	Long torm		General	Cyntomia
	DNEL	Long term	0.9 mg/m <sup>3</sup>		Systemic
		Inhalation		population	
	DNEL	Long term	3.5 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
Phosphine oxide, phenylbis	DNEL	Long term	21 mg/m <sup>3</sup>	Workers	Systemic
(2,4,6-trimethylbenzoyl)-		Inhalation	Ü		
(_, .,, ,	DNEL	Short term	21 mg/m³	Workers	Systemic
		Inhalation	2 i iiig/iii	Workers	Systemis
	DNEL		2.2 ma/ka	Workers	Systemia
		Long term Dermal	3.3 mg/kg		Systemic
	DNEL	Short term Dermal	3.3 mg/kg	Workers	Systemic
	DNEL	Long term	5.2 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
				[Consumers]	
	DNEL	Long term Dermal	1.5 mg/kg	General	Systemic
			0 0	population	
				[Consumers]	
	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
	DIVLE	Long will Olai	1.5 mg/kg		Cystollilo
				population	
				[Consumers]	
	DNEL	Short term Oral	1.67 ng/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	1.5 mg/kg	General	Systemic
		Zong tonin Bonnar	bw/day	population	Gyotoniio
	DNE	Chart tarm Darmal			Cyrotomio
	DNEL	Short term Dermal	1.67 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term	1.93 mg/m <sup>3</sup>		Systemic
		Inhalation		population	
	DNEL	Long term	1.93 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	3 mg/kg	Workers	Systemic
			bw/day		- ,
	DNEL	Short term Dermal	3.33 mg/	Workers	Systemic
	DIVLL	Chort term Berman	kg bw/day	VVOIRCIS	Cysternic
	DNIEL	Ola and Assuma		\\	04: -
	DNEL	Short term	7.84 mg/m <sup>3</sup>	vvorkers	Systemic
		Inhalation			
	DNEL	Long term	7.84 mg/m <sup>3</sup>	vvorkers	Systemic
		Inhalation			
Methylbenzoylformiat	DNEL	Long term Oral	1.67 mg/	General	Systemic
		-	kg bw/day	population	-
	DNEL	Long term Dermal	1.67 mg/	General	Systemic
			kg bw/day	population	'
	DNEL	Long term Dermal	3.33 mg/	Workers	Systemic
	5116	Long tolli Delillal	kg bw/day	11 OI NOI O	Systemio
4.4! Joopropylidenedinberel	ראובי	Long torm		Morkora	Cyatamia
4,4'-Isopropylidenediphenol,	DNEL	Long term	1.17 mg/m <sup>3</sup>	vvorkers	Systemic
oligomeric reaction products with		Inhalation			
1-chloro-2,3-epoxypropane, esters					
with acrylic acid					
	DNEL	Long term Dermal	33 mg/kg	Workers	Systemic
			bw/day		
2-Methoxy-1-methylethyl acetate	DNEL	Long term	33 mg/m³	General	Local
outoxy . Intouryloutyl dootato		Inhalation	55g/	population	
	DNEL		33 mg/m³	General	Systemic
	DINEL	Long term	33 mg/m²		Systemic
	D	Inhalation		population	
	DNEL	Long term Oral	36 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	275 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			-
	DNEL	Long term Dermal	320 mg/kg	General	Systemic
	- · ·		bw/day	population	,======
	I	l	J., 44,	L obaiation	<u> </u>

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	DNEL	Short term Inhalation	550 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	796 mg/kg bw/day	Workers	Systemic
Benzene, (1-methylethenyl)-, homopolymer, ar-(2-hydroxy-	DNEL	Long term Oral	5.28 µg/kg bw/day	General population	Systemic
2-methyl-1-oxopropyl) derivs.	DNEL	Long term Dermal	5.28 µg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	9.18 μg/m³	General population	Systemic
	DNEL	Long term Dermal	14.8 µg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	52.1 μg/m³	Workers	Systemic
(1-methyl-1,2-ethanediyl)bis[oxy (methyl-2,1-ethanediyl)] diacrylate	DNEL	Long term Dermal	1.7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.35 mg/m <sup>3</sup>	Workers	Systemic
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	26.7 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	59 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	98 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	147 mg/m³	General population	Local
	DNEL	Short term Inhalation	246 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	426 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	1091 mg/ m³	Workers	Systemic
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	DNEL	Long term Inhalation	1.17 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	33 mg/kg bw/day	Workers	Systemic
Oligotriacrylate	DNEL	Long term Inhalation	7.4 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	2.1 mg/kg bw/day	Workers	Systemic

### **PNECs**

No PNECs 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.

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#### **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.

### **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.

< 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 Red. Odour Slight

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

Initial boiling point and

boiling range

Ingredient name	°C	°F	Method
Methoxy-1-methylethyl acetate	145.8	294.4	OECD 103
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	>391	>735.8	OECD 103

**Flammability** : Not available.

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

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

**Auto-ignition temperature** 

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### SECTION 9: Physical and chemical properties

Ingredient name	°C	°F	Method
<b>⊮</b> examethylene diacrylate	235	455	DIN 51794
Dipropylenglycol diacrylate	240	464	DIN 51794

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

Solubility(ies)

Not available.

water

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

Vapour pressure

	Vapour Pressure at 20°C			Var	oour pressui	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
24Methoxy-1-methylethyl acetate	2.7	0.36	OECD 104			
2-hydroxy-2-methylpropiophenone	0.00428	0.00057	OECD 104	0.09751	0.013	OECD 104

**Relative density** : Not available. : 1.2 g/cm<sup>3</sup> **Density** Vapour density : Not available. **Explosive properties** : Not available. **Oxidising properties** : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

### SECTION 10: Stability and reactivity

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

10.2 Chemical stability : The product is stable.

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

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

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

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## **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
<b>D</b> ipropylenglycol diacrylate	LD50 Oral	Rat	4600 mg/kg	-
Hexamethylene diacrylate	LD50 Oral	Rat	5 g/kg	-
Propylidynetrimethanol,	LD50 Dermal	Rabbit	>13 g/kg	-
ethoxylated, esters with				
acrylic acid				
2-hydroxy-	LD50 Dermal	Rat	6929 mg/kg	-
2-methylpropiophenone				
	LD50 Oral	Rat	1694 mg/kg	-
Phosphine oxide, phenylbis	LD50 Oral	Rat	>2000 mg/kg	-
(2,4,6-trimethylbenzoyl)-				
2-Methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-
acetate				
	LD50 Oral	Rat	8532 mg/kg	-
(1-methyl-1,2-ethanediyl)bis	LD50 Oral	Rat	6200 mg/kg	-
[oxy(methyl-2,1-ethanediyl)]				
diacrylate				
copper bis	LC50 Inhalation Dusts and	Rat	0.12 mg/l	4 hours
(dimethyldithiocarbamate)	mists		0000 "	
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

### **Conclusion/Summary**

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

### **Acute toxicity estimates**

Route	ATE value
	2682.73 mg/kg 830.55 mg/l

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>D</b> ipropylenglycol diacrylate	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Severe irritant	Rabbit	-	500 mg	-
Hexamethylene diacrylate	Skin - Severe irritant	Rabbit	-	24 hours 500	-
				mg	
Propylidynetrimethanol, ethoxylated, esters with	Eyes - Moderate irritant	Rabbit	-	100 mg	-
acrylic acid	Skin - Moderate irritant	Rabbit		500 mg	
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
ilianium dioxide	Skiri - iviliu irritarit	пишап	-	ug I	-
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	Eyes - Severe irritant	Rabbit	-	24 hours 100 uL	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

### **Conclusion/Summary**

: Causes skin irritation.

### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	skin	Guinea pig	Sensitising

### **Conclusion/Summary**

: May cause an allergic skin reaction.

### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	-	Subject: Bacteria	Negative

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### SECTION 11: Toxicological information

**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.

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

**Reproductive toxicity** 

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

**Teratogenicity** 

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

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Methoxy-1-methylethyl acetate (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation

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

Not available.

#### **Aspiration hazard**

Not available.

Information on likely routes

: Not available.

of exposure

#### Potential acute health effects

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

Inhalation : No known significant effects or critical hazards.

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

: No known significant effects or critical hazards. Ingestion

### Symptoms related to the physical, chemical and toxicological characteristics

**Eve 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** : 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.

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## **SECTION 11: Toxicological information**

**Conclusion/Summary** 

: Not available.

General

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

to very low levels.

Carcinogenicity Mutagenicity **Reproductive toxicity** 

: No known significant effects or critical hazards. : No known significant effects or critical hazards. : 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
Hexamethylene diacrylate	EC50 1.09 mg/l	Algae - Selenastrum capricornutum	72 hours
	EC50 2.7 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	LC50 0.38 mg/l	Fish - Oryzias latipes	96 hours
	NOEC 0.5 mg/l	Algae - Desmodesmus subspicatus	72 hours
	NOEC 0.14 mg/l	Daphnia - <i>Daphnia magna</i>	21 days
	NOEC 0.072 mg/l	Fish - Oryzias latipes	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
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	EC50 ≥0.26 mg/l	Aquatic plants - Desmodesmus subspicatus	72 hours
	NOEC ≥0.008 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Acute EC50 >1.175 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 >0.09 mg/l	Fish - Brachydanio rerio	96 hours
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	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
copper bis	Acute LC50 71 µg/l Fresh water	Fish - Pimephales promelas	96 hours
(dimethyldithiocarbamate)		,	

**Conclusion/Summary** 

: Toxic to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

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

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

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

Product/ingredient name	LogPow	BCF	Potential
<b></b>	0.01 to 0.39	-	Low
Hexamethylene diacrylate	2.81	-	Low
Propylidynetrimethanol,	2.89	-	Low
ethoxylated, esters with			
acrylic acid			
2-hydroxy-	1.62	-	Low
2-methylpropiophenone		_	
Phosphine oxide, phenylbis	5.77	<5	Low
(2,4,6-trimethylbenzoyl)-	4.04- 0		Law
4,4'-Isopropylidenediphenol,	1.6 to 3	<del>-</del>	Low
oligomeric reaction products with 1-chloro-			
2,3-epoxypropane, esters			
with acrylic acid			
2-Methoxy-1-methylethyl	1.2	-	Low
acetate			
(1-methyl-1,2-ethanediyl)bis	2	_	Low
[oxy(methyl-2,1-ethanediyl)]			
diacrylate			
2-Butoxyethanol	0.81	-	Low
4,4'-Isopropylidenediphenol,	1.6 to 3	-	Low
oligomeric reaction products			
with 1-chloro-			
2,3-epoxypropane, esters			
with acrylic acid	0.50		1
Oligotriacrylate	2.52	-	Low

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

: Not available. **Mobility** 

#### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

### **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste European waste** 

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

catalogue (EWC)

**Packaging** 

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: 080111\*

### **SECTION 13: Disposal considerations**

**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	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.

### **Additional information**

ADR/RID

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Tunnel code (-)

**ADN** 

This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IMDG** 

This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IATA** 

This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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.

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

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

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

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

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

Product/ingredient name	%	Designation [Usage]
<b>VILUX 1745-02</b>	≥90	3

Labelling :

**Other EU regulations** 

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

Explosive precursors : Mot 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 controlled under the Seveso Directive.

#### **Danger criteria**

Category

E2

### **National regulations**

**Austria** 

VbF class : Not regulated.

Limitation of the use of : Permitted.

organic solvents

**Czech Republic** 

Storage code : W

**Denmark** 

Danish fire class : 

Executive Order No. 1795/2015

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

MAL-code : 0-6

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### SECTION 15: Regulatory information

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

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

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

MAL-code: 0-6

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

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

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

**Finland** 

**France** 

: M-methyl-1,2-ethanediyl)bis[oxy(methyl-Social Security Code, **RG 84** 

2,1-ethanediyl)] diacrylate Articles L 461-1 to L 461-7

2-Methoxy-1-methylethyl acetate **RG 84** 

Reinforced medical

surveillance

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

medical surveillance: not applicable

**Germany** 

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

This product is controlled under the Germany Hazardous Incident Ordinance.

#### **Danger criteria**

Category	Reference number
<b>2</b>	1.3.2

Hazard class for water

**Technical instruction on** air quality control

: 2 : TA-Luft Number 5.2.5: 59.4%

TA-Luft Class I - Number 5.2.5: 1.3%

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

value in waste water

Italy

D.Lgs. 152/06 : Not determined.

**Netherlands** 

**Water Discharge Policy** 

(ABM)

: K(2) Toxic for aquatic organisms, may have long-term hazardous effects in aquatic

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.

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### **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.

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 2, H411	Calculation method

#### Full text of abbreviated H statements

<b>⊬</b> 226	
	Flammable liquid and vapour.
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.
H336	May cause drowsiness or dizziness.
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]

Cute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 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
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
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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### **SECTION 16: Other information**

#### **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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