## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

## **SAFETY DATA SHEET**



UVILUX 1745-02 - HARDTOP TS 21144 ANTRASIT

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

## 1.1 Product identifier

Product name : UVILUX 1745-02 - HARDTOP TS 21144 ANTRASIT

**1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct 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 Acute 1, H400 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. H410 - Very 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.	

## **SECTION 2: Hazards identification**

SECTION 2. Hazarus		
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. Immediately call a POISON CENTER or doctor.
Storage	:	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	-	Contains: Hexamethylene diacrylate; pentaerythritol tetraacrylate; Propylidynetrimethanol, ethoxylated, esters with acrylic acid and Dipropylenglycol diacrylate
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 vPvB.

1907/2006, Annex XIIIOther hazards which do: None known.not result in classification

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

Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
REACH #: 01-2119484737-22 EC: 235-921-9 CAS: 13048-33-4 Index: 607-109-00-8	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M [Acute] = 1	[1]
CAS: 917379-62-5	≥10 - <25	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]
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]
REACH #: 01-2119484629-21 EC: 260-754-3 CAS: 57472-68-1	≤10	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	-	[1]
REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤5	Carc. 2, H351 (inhalation)	-	[1] [*]
	REACH #: 01-2119484737-22 EC: 235-921-9 CAS: 13048-33-4 Index: 607-109-00-8 CAS: 917379-62-5 CAS: 917379-62-5 CAS: 917379-62-5 CAS: 28961-43-5 REACH #: 01-2119484629-21 EC: 260-754-3 CAS: 57472-68-1 REACH #: 01-2119489379-17 EC: 236-675-5	REACH #: 01-2119484737-22 EC: 235-921-9 CAS: 13048-33-4 Index: $607-109-00-8$ $\geq 25 - \leq 50$ CAS: 917379-62-5 $\geq 10 - <25$ CAS: 917379-62-5 $\geq 10 - <25$ REACH #: 01-2119489900-30 EC: 500-066-5 CAS: 28961-43-5 $\leq 10$ REACH #: 01-2119484629-21 EC: 260-754-3 CAS: 57472-68-1 $\leq 10$ REACH #: 01-2119489379-17 EC: 236-675-5 $\leq 5$	REACH #: 01-2119484737-22 EC: 235-921-9 CAS: 13048-33-4 Index: 607-109-00-8 $\geq 25 - \leq 50$ Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411CAS: 917379-62-5 $\geq 10 - <25$ Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411REACH #: 01-2119489900-30 EC: 500-066-5 CAS: 28961-43-5 $\leq 10$ Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412REACH #: 01-2119484629-21 EC: 260-754-3 CAS: 57472-68-1 $\leq 10$ Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412REACH #: 01-2119489379-17 EC: 236-675-5 $\leq 5$ Carc. 2, H351 (inhalation)	Identifiers $\gamma_0$ ClassificationLimits, M-factors and ATEsREACH #: 01-2119484737-22 EC: 235-921-9 CAS: 13048-33-4 Index: 607-109-00-8 $\geq 25 - \le 50$ Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411M [Acute] = 1CAS: 917379-62-5 $\geq 10 - <25$ Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H317 Aquatic Chronic 2, H411ATE [Oral] = 500 mg/kgREACH #: 01-2119489900-30 

SECTION 3: Compo	sition/informat	ion on in	gredients		
Methylbenzoylformiat	REACH #: 01-2120101338-67 EC: 239-263-3 CAS: 15206-55-0	≤3	Skin Sens. 1, H317	-	[1]
Benzene, (1-methylethenyl)- , homopolymer, ar- (2-hydroxy-2-methyl- 1-oxopropyl) derivs.	CAS: 163702-01-0	<3	Repr. 2, H361f	-	[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	≤3	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]
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	REACH #: 01-2119489401-38 EC: 423-340-5 CAS: 162881-26-7 Index: 015-189-00-5	≤3	Skin Sens. 1A, H317 Aquatic Chronic 4, H413	-	[1]
ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate	REACH #: 01-2119987994-10 EC: 282-810-6 CAS: 84434-11-7	≤3	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[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]
Fatty acids, C18-unsatd., dimers, polymers with acrylic acid, bisphenol A, epichlorohydrin and nonanoic acid	CAS: 216689-76-8	<1	Skin Sens. 1B, H317	-	[1]
			See Section 16 for the full text of the H statements declared above.		

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

<u>Type</u>

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  $\leq$  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.

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

SECTION 4. FIISLAN	
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 <u>Over-exposure signs/symptoms</u>

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 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

Date of issue/Date of revision	: 30/11/2023	Date of previous issue	: 13
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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 very toxic to aquatic life. 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 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, pro	ective 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.
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
E1	100 tonne	200 tonne

#### 7.3 Specific end use(s)

: Not available.

Recommendations 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
₽-Butoxyethanol	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m <sup>3</sup> 8 hours. PEAK: 40 ppm, 4 times per shift, 30 minutes. PEAK: 200 mg/m <sup>3</sup> , 4 times per shift, 30 minutes.
₽-Butoxyethanol	Limit values (Belgium, 5/2021). Absorbed through skin. 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.
Date of issue/Date of revision : 30/11/2023 Da	te of previous issue : 13/07/2022 Version :1.03 6/24
JVILUX 1745-02 - HARDTOP TS 21144 ANTRAS	IT Label No : 74695

Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.         Limit value 8 hours: 98 mg/m³ 8 hours.         Limit value 15 min: 246 mg/m³ 15 minutes.         Limit value 15 min: 50 ppm 15 minutes.         Limit value 8 hours: 20 ppm 8 hours.         P-Butoxyethanol         Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin.         STELV: 246 mg/m³ 15 minutes.         STELV: 246 mg/m³ 8 hours.         ELV: 98 mg/m³ 8 hours.         ELV: 20 ppm 8 hours.         Department of labour inspection (Cyprus, 7/2021). Absorbed through skin.         STEL: 50 ppm 15 minutes.         STEL: 50 ppm 15 minutes.         STEL: 246 mg/m³ 15 minutes.         STEL: 20 ppm 8 hours.         Department of labour inspection (Cyprus, 7/2021). Absorbed through skin.         STEL: 50 ppm 15 minutes.         STEL: 20 ppm 8 hours.         TWA: 20 ppm 8 hours.         TWA: 98 mg/m³ 8 hours.	2-Butoxyethanol	Ministry of Labour and Social Policy and the Ministry of
Limit value 6 hours: 98 mg/m <sup>2</sup> 8 hours.         Limit value 15 mil: 50 ppm 15 minutes.         Limit value 15 mil: 50 ppm 8 hours.         E'Butoxyethanol         Milistry of Economy, Labour and Entrepreneurship ELV/ STELV: 246 mg/m <sup>2</sup> 15 minutes.         E'LV: 20 pg/m <sup>3</sup> 15 minutes.         STELV: 246 mg/m <sup>3</sup> 15 minutes.         STELV: 20 pg/m <sup>3</sup> 8 hours.         EUV: 20 pg/m <sup>3</sup> 8 hours.         STEL: 246 mg/m <sup>3</sup> 15 minutes.         STEL: 246 mg/m <sup>3</sup> 15 minutes.         STEL: 246 mg/m <sup>3</sup> 16 hours.         TWX: 20 pg/m 8 hours.         TWX: 20 pg m 8 hours.         TWX: 20 pg/m 16 minutes.         STEL: 246 mg/m <sup>3</sup> 15 minutes.         STEL: 200 mg/m <sup>3</sup> 16 minutes.		Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
Limit value 15 min: 246 mg/m <sup>2</sup> 15 minutes.         PButoxysthanol         Winstry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin.         STELV: 240 mg/m <sup>2</sup> 16 minutes.         STELV: 20 ppm 8 hours.         EV: 90 pm m 15 minutes.         ELV: 20 ppm 8 hours.         EV: 20 ppm 8 hours.         EV: 20 ppm 8 hours.         STEL: 26 mg/m <sup>2</sup> 16 minutes.         TWA: 20 ppm 8 hours.         STEL: 20 ppm 8 hours.         STEL: 20 ppm 8 hours.         TWA: 20 ppm 8 hours.         STEL: 20 ppm 15 minutes.         PButoxyethanol         Working Environment Authority (Denmark, 6/2022). Absorbed through skin.         TWA: 20 ppm 8 hours.         STEL: 20 mg/m <sup>3</sup> 15 minutes.         STEL: 20 mg/m <sup>3</sup> 15 minutes.         STEL: 20 mg/m <sup>3</sup> 16 minutes.         STEL: 20 mg/m <sup>3</sup> 16 minutes.         STEL: 20 mg/m <sup>3</sup> 16 minutes.         STEL: 20		
Limit value 15 min: 50 ppm 15 minutes.         PButoxyethanol		
PButoxyethanol       Ministry of Economy, Labour and Entrepreneurship ELV/         STELV (Create, 1/2021), Absorbed through skin.       STELV: 246 mg/m <sup>+</sup> 15 minutes.         STELV: 20 ppm 15 minutes.       ELV: 30 ppm 8 hours.         EUV. 20 ppm 8 hours.       EUV. 20 ppm 8 hours.         FButoxyethanol       Department of labour inspection (Cyprus, 7/2021), Absorbed through skin.         STEL: 246 mg/m <sup>+</sup> 15 minutes.       STEL: 246 mg/m <sup>+</sup> 16 minutes.         STEL: 246 mg/m <sup>+</sup> 16 minutes.       STEL: 246 mg/m <sup>+</sup> 16 minutes.         STEL: 246 mg/m <sup>+</sup> 16 minutes.       TWA: 200 ppm 8 hours.         PButoxyethanol       Government regulation of Czech Republic PEL/NPK-P (Czech Republic PEL/NPK R		Limit value 15 min: 50 ppm 15 minutes.
STELV (Croatia, 1/2021). Absorbed through skin.         STELV: 246 mg/m 15 minutes.         ELV: 30 ppm 8 hours.         ELV: 20 ppm 8 hours.         ELV: 20 ppm 8 hours.         STELV: 226 mg/m 15 minutes.         STEL: 246 mg/m 15 minutes.         TWX: 20 ppm 8 hours.         TWX: 20 ppm 15 minutes.         STEL: 200 mg/m 16 minutes.         STEL: 200 mg/m 16 minutes.         STEL: 200 mg/m 16 hours.         TWX: 30 ppm 8 hours.         TWX: 90 ppm 16 hours.         TWX: 90 ppm 16 hours.         TWX: 90 ppm 16 minutes.         STEL: 200 mg/m 16 minutes.         STEL: 200 ppm 15 minutes.         STEL		
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STEL: 50 ppm 15 minutes.         STEL: 246 mg/m <sup>3</sup> 15 minutes.         TWA: 20 ppm 8 hours.         TWA: 98 mg/m <sup>3</sup> 8 hours.         TWA: 98 mg/m <sup>3</sup> 8 hours.         TWA: 98 mg/m <sup>3</sup> 8 hours.         TWA: 100 mg/m <sup>3</sup> 8 hours.         STEL: 200 mg/m <sup>3</sup> 8 hours.         STEL: 200 mg/m <sup>3</sup> 15 minutes.         STEL: 200 mg/m <sup>3</sup> 15 minutes.         STEL: 40.8 ppm 15 minutes.         STEL: 200 mg/m <sup>3</sup> 15 minutes.         STEL: 30 ppm 8 hours.         TWA: 20 ppm 8 hours.         TWA: 20 ppm 8 hours.         TWA: 20 ppm 8 hours.         STEL: 40.8 ppm 15 minutes.         STEL: 246 mg/m <sup>3</sup> 15 minutes.         STEL: 50 ppm 15 minutes.         STEL: 246 mg/m <sup>3</sup> 15 minutes.         STEL: 246 mg/m <sup>3</sup> 15 minutes.         STEL: 246 mg/m <sup>3</sup> 15 minutes.         STEL: 20 ppm 8 hours.         TWA: 90 mg/m <sup>3</sup> 15 minutes.         STEL: 20 ppm 15 minutes.         STEL: 50 ppm 15 minutes.	2-Butoxyethanol	
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2,1-ethanediyl)] diacrylate2-ButoxyethanolTRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 49 mg/m³ 8 hours. PEAK: 98 mg/m³ 15 minutes. TWA: 10 ppm 8 hours. PEAK: 20 ppm 15 minutes.DFG MAC-values list (Germany, 7/2022). Absorbed through skin. TWA: 10 ppm 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes. TWA: 49 mg/m³ 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes.No exposure limit value known.	Hexamethylene diacrylate	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
2-Butoxyethanol TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 49 mg/m <sup>3</sup> 8 hours. PEAK: 98 mg/m <sup>3</sup> 15 minutes. TWA: 10 ppm 8 hours. PEAK: 20 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through skin. TWA: 10 ppm 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes. TWA: 49 mg/m <sup>3</sup> 8 hours. PEAK: 98 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.		DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
PEAK: 98 mg/m³ 15 minutes.TWA: 10 ppm 8 hours.PEAK: 20 ppm 15 minutes.DFG MAC-values list (Germany, 7/2022). Absorbed through skin.TWA: 10 ppm 8 hours.PEAK: 20 ppm, 4 times per shift, 15 minutes.TWA: 49 mg/m³ 8 hours.PEAK: 98 mg/m³, 4 times per shift, 15 minutes.No exposure limit value known.		
TWA: 10 ppm 8 hours. PEAK: 20 ppm 15 minutes.DFG MAC-values list (Germany, 7/2022). Absorbed through skin. TWA: 10 ppm 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes. TWA: 49 mg/m³ 8 hours. PEAK: 98 mg/m³, 4 times per shift, 15 minutes.No exposure limit value known.		
PEAK: 20 ppm 15 minutes.DFG MAC-values list (Germany, 7/2022). Absorbed through skin. TWA: 10 ppm 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes. TWA: 49 mg/m³ 8 hours. PEAK: 98 mg/m³, 4 times per shift, 15 minutes.No exposure limit value known.		•
skin.TWA: 10 ppm 8 hours.PEAK: 20 ppm, 4 times per shift, 15 minutes.TWA: 49 mg/m³ 8 hours.PEAK: 98 mg/m³, 4 times per shift, 15 minutes.No exposure limit value known.		PEAK: 20 ppm 15 minutes.
TWA: 10 ppm 8 hours.PEAK: 20 ppm, 4 times per shift, 15 minutes.TWA: 49 mg/m³ 8 hours.PEAK: 98 mg/m³, 4 times per shift, 15 minutes.No exposure limit value known.		
PEAK: 20 ppm, 4 times per shift, 15 minutes. TWA: 49 mg/m <sup>3</sup> 8 hours. PEAK: 98 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. No exposure limit value known.		-
TWA: 49 mg/m <sup>3</sup> 8 hours. PEAK: 98 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. No exposure limit value known.		
No exposure limit value known.		
	No expedure limit value known	PEAK: 96 mg/m², 4 umes per snift, 15 minutes.
no exposure limit value known.	•	
	ino exposure limit value known.	

2-Butoxyethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin. STEL: 246 mg/m <sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes. TWA: 100 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours.
<b>2</b> -Butoxyethanol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU 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-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. Short Term: 246 mg/m <sup>3</sup> 15 minutes.
No exposure limit value known.	
2-Butoxyethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 50 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. STEL: 100 mg/m <sup>3</sup> 15 minutes. STEL: 20 ppm 15 minutes.
2-Butoxyethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. 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-Butoxyethanol	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis 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-Butoxyethanol	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 100 mg/m <sup>3</sup> 8 hours. STEL,15-min: 246 mg/m <sup>3</sup> 15 minutes. OEL, 8-h TWA: 20.4 ppm 8 hours. STEL,15-min: 50 ppm 15 minutes.
No exposure limit value known.	
No exposure limit value known.	
No exposure limit value known.	
2-Butoxyethanol	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 98 mg/m <sup>3</sup> 8 hours. VLA: 20 ppm 8 hours. Short term: 246 mg/m <sup>3</sup> 15 minutes. Short term: 50 ppm 15 minutes.
2-Butoxyethanol	Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 98 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 246 mg/m <sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes.
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2-Butoxyethanol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin.
	TWA: 98 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
	KTV: 246 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
	KTV: 50 ppm, 4 times per shift, 15 minutes.
No exposure limit value known.	
2-Butoxyethanol	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin.
	TWA: 10 ppm 8 hours.
	TWA: 50 mg/m <sup>3</sup> 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 246 mg/m <sup>3</sup> 15 minutes.
-Butoxyethanol	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 10 ppm 8 hours.
	TWA: 49 mg/m <sup>3</sup> 8 hours.
	STEL: 20 ppm 15 minutes.
	STEL: 98 mg/m <sup>3</sup> 15 minutes.
-Methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 548 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 274 mg/m <sup>3</sup> 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/m <sup>3</sup> 15 minutes.
athylhovan 1 al	TWA: 123 mg/m <sup>3</sup> 8 hours.
2-ethylhexan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 5.4 mg/m <sup>3</sup> 8 hours.
	TWA: 3.4 mg/m 8 hours.
n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 966 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
Toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	TWA: 191 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
No exposure indices known.	
₽-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
ate of issue/Date of revision : 30/11/2023	B         Date of previous issue         : 13/07/2022         Version         : 1.03         9/24
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#### **SECTION 8: Exposure controls/personal protection** the end of the week. No exposure indices known. 2-Butoxyethanol DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for longterm exposures: at the end of the shift after several shifts. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts. No exposure indices known. No exposure indices known. No exposure indices known. 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. 2-Butoxyethanol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays. No exposure indices known. No exposure indices known. 2-Butoxyethanol SUVA (Switzerland, 1/2023) BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. No exposure indices known. **Recommended monitoring** 5 Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the procedures 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 Date of issue/Date of revision : 30/11/2023 Date of previous issue : 13/07/2022

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## **SECTION 8: Exposure controls/personal protection**

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	Туре	Exposure	Value	Population	Effects
Kexamethylene diacrylate	DNEL	Long term Inhalation	7.2 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	1.66 mg/	General	Systemic
			kg bw/day	population	,
	DNEL	Long term Oral	2.1 mg/kg	General	Systemic
			bw/day	population	-
	DNEL	Long term Dermal	2.77 mg/	Workers	Systemic
			kg bw/day		
	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	\A/avl/ava	C. internie
	DNEL	Long term Inhalation	37 mg/m <sup>3</sup>	Workers	Systemic
Dipropylenglycol diacrylate	DNEL	Long term Dermal	1.66 mg/	General	Systemic
Dipropylerigiyeor diaerylate	DINEL	Long term Derma	kg bw/day	population	Cysternie
	DNEL	Long term Oral	2.08 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	2.77 mg/	Workers	Systemic
			kg bw/day		-
	DNEL	Long term	7.24 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term	24.48 mg/	Workers	Systemic
Mothulbonzoulformiat		Inhalation	m <sup>3</sup>	Conoral	Sustamia
Methylbenzoylformiat	DNEL	Long term Oral	1.67 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 1.67 mg/	population General	Systemic
		Long term Derma	kg bw/day	population	Cysternic
	DNEL	Long term Dermal	3.33 mg/	Workers	Systemic
			kg bw/day		
Benzene, (1-methylethenyl)-,	DNEL	Long term Oral	5.28 µg/kg	General	Systemic
homopolymer, ar-(2-hydroxy-			bw/day	population	
2-methyl-1-oxopropyl) derivs.			F 00 "		
	DNEL	Long term Dermal	5.28 µg/kg	General	Systemic
	DNEL	Long term	bw/day 9.18 µg/m³	population General	Systemic
		Inhalation	9.10 µg/m	population	Cysternic
	DNEL	Long term Dermal	14.8 µg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	52.1 µg/m <sup>3</sup>	Workers	Systemic
		Inhalation			-
(1-methyl-1,2-ethanediyl)bis[oxy	DNEL	Long term Dermal	1.7 mg/kg	Workers	Systemic
(methyl-2,1-ethanediyl)] diacrylate	<b></b>		bw/day		
	DNEL	Long term	2.35 mg/m <sup>3</sup>	Workers	Systemic
Phoenhino ovido, phonythia		Inhalation	$21 ma/m^3$	Workers	Sustamia
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	DNEL	Long term Inhalation	21 mg/m <sup>3</sup>	VVUIKEIS	Systemic
<u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DNEL	Short term	21 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	3.3 mg/kg	Workers	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	
	<b>D</b>	<u>-</u> .		[Consumers]	
	DNEL	Long term Dermal	1.5 mg/kg	General	Systemic
				population	
		Long term Oral	1.5 mg/kg	[Consumers] General	Systemia
			L LO HIY/KY	General	Systemic
	DNEL	Long term Oral	0.0	nonulation	
	DNEL			population	

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	_			[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
			bw/day	population	
	DNEL	Short term Dermal	1.67 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term	1.93 mg/m <sup>3</sup>	General	Systemic
		Inhalation	1.02 m m/m 3	population	Curatamia
	DNEL	Long term	1.93 mg/m <sup>3</sup>	General	Systemic
	DNEL	Inhalation Long term Dermal	3 mg/kg	population Workers	Systemic
	DNEL	Long term Denna	bw/day	VIOINEIS	Systemic
	DNEL	Short term Dermal	3.33 mg/	Workers	Systemic
			kg bw/day		Cystonic
	DNEL	Short term	7.84 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			- )
	DNEL	Long term	7.84 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	Ũ		,
ethyl phenyl(2,4,6-trimethylbenzoyl)	DNEL	Long term Oral	0.5 mg/kg	General	Systemic
phosphinate			bw/day	population	-
	DNEL	Long term Dermal	0.5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	0.87 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	1.4 mg/kg	Workers	Systemic
		1	bw/day		O. un transita
	DNEL	Long term	4.93 mg/m <sup>3</sup>	Workers	Systemic
2-Butoxyethanol	DNEL	Inhalation	6.3 mg/kg	General	Systemic
z-Buloxyelhanol	DNEL	Long term Oral	bw/day	population	Systemic
	DNEL	Short term Oral	26.7 mg/	General	Systemic
	DINEL		kg bw/day	population	Cysternie
	DNEL	Long term	59 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation			-
	DNEL	Short term	147 mg/m³	General	Local
		Inhalation	_	population	
	DNEL	Short term	246 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	426 mg/m <sup>3</sup>	General	Systemic
		Inhalation	1001	population	
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	$m^{3}$	Morkers	Suptomi-
Fatty acids, C18-unsatd., dimers,	DNEL	Long term Dermal	0.33 mg/	Workers	Systemic
polymers with acrylic acid, bisphenol			kg bw/day		
A, epichlorohydrin and nonanoic acid	DNEL	Long term	1.18 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	1.10 mg/m	VV UINCIS	Gysternic
		malation			

#### **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

## **SECTION 8: Exposure controls/personal protection**

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.
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	<ul> <li>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.</li> </ul>
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: A
	Filter type (spray application): A P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

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

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

: Liquid.
: <mark>Ø</mark> rey.
: Slight
: Not available.
: Not available.
:

Ingredient name	°C	°F	Method
//-methyl-1,2-ethanediyl)bis[oxy(methyl- 2,1-ethanediyl)] diacrylate	>120	>248	
ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	257.4	495.3	

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SECTION 9: Physical ar Flammability		Not available.			
Lower and upper explosion	: Lower: Not applicable.				
limit Electronici	Upper: Not applicable.				
Flash point		Closed cup: >100°	C (>212°F)		
Auto-ignition temperature	÷				
Ingredient name		°C	°F	Method	
Hexamethylene diacrylate		235	455	DIN 51794	
Dipropylenglycol diacrylate		240	464	DIN 51794	
Decomposition temperature	:	Not available.			
рН	:	Not applicable.			
Viscosity	:	Not available.			
Solubility(ies)	:				
Not available.					
Solubility in water	:	Not available.			
Partition coefficient: n-octanol/ water	:	Not applicable.			

#### Vapour pressure

	Va	Vapour Pressure at 20°C		V	apour pres	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
propylenglycol diacrylate	0.00064	0.000085	OECD 104			
Hexamethylene diacrylate	0.00045	0.00006	EU A.4			
Relative density	: Not	available.				·
Density	: 1.2	g/cm³				
/apour density	: Not	available.				
Explosive properties	: Not	available.				
Dxidising properties	: Not	available.				
Particle characteristics						
Median particle size	: Not	applicable.				

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

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10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredient	s.
10.2 Chemical stability	: The product is stable.	
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
10.4 Conditions to avoid	: No specific data.	
10.5 Incompatible materials	: No specific data.	
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

## **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene diacrylate	LD50 Oral	Rat	5 g/kg	-
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	LD50 Dermal	Rabbit	>13 g/kg	-
Dipropylenglycol diacrylate	LD50 Oral	Rat	4600 mg/kg	-
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	LD50 Oral	Rat	6200 mg/kg	-
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	LD50 Oral	Rat	>2000 mg/kg	-

#### Acute toxicity estimates

Route	ATE value
Øral	3611.06 mg/kg
Inhalation (vapours)	609.7 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hexamethylene diacrylate	Skin - Severe irritant	Rabbit	-	24 hours 500	-
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Eyes - Moderate irritant	Rabbit	-	mg 100 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-
Dipropylenglycol diacrylate	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Severe irritant	Rabbit	-	500 mg	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
(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
hosphine 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

#### **Conclusion/Summary**

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

#### **Carcinogenicity**

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

#### **Conclusion/Summary**

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

#### **Reproductive toxicity**

Conclusion/Summary	: Based on available data,	the classification c	iteria are not met.	
Teratogenicity				
Conclusion/Summary	: Based on available data,	the classification c	riteria are not met.	
Specific target organ toxi	<u>city (single exposure)</u>			
Product/in	gredient name	Category	Route of exposure	Target organs
(1-methyl-1,2-ethanediyl)bi diacrylate	s[oxy(methyl-2,1-ethanediyl)]	Category 3	-	Respiratory tract irritation
Specific target organ toxi	<u>city (repeated exposure)</u>			
Not available.				
Aspiration hazard Not available.				
nformation on likely route of exposure	s : Not available.			
Potential acute health effect	<u>ets</u>			
Eye contact	: Causes serious eye dam	age.		
Inhalation	: No known significant effe	ects or critical hazar	ds.	
Skin contact	: Causes skin irritation. M	ay cause an allergi	c skin reaction.	
Ingestion	: No known significant effe	ects or critical hazar	ds.	
Symptoms related to the p	hysical, chemical and toxicol	ogical characteris	tics	
Eye contact	: Adverse symptoms may pain watering redness			
Inhalation	: No specific data.			
Skin contact	: Adverse symptoms may pain or irritation redness blistering may occur	include the followin	g:	
Ingestion	: Adverse symptoms may stomach pains	include the followin	g:	
	ects as well as chronic effect	s from short and l	ong-term exposi	ıre
Short term exposure Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Long term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	Not available.			
Potential chronic health e Not available.	<u>ffects</u>			
Conclusion/Summary	: Not available.			
General	<ul> <li>Once sensitized, a sever to very low levels.</li> </ul>	e allergic reaction r	nay occur when su	ubsequently exposed
• • • •	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

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

## **SECTION 11: Toxicological information**

#### 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	72 hours
		capricornutum	
	EC50 2.7 mg/l	Daphnia - Daphnia magna	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	48 hours
		dubia - Neonate	
	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 - <i>Desmodesmus subspicatus</i>	72 hours
	NOEC ≥0.008 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Acute EC50 >1.175 mg/l	Daphnia - Daphnia magna	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

**Conclusion/Summary** : Very toxic to aquatic life. 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 Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	-	-	Readily Not readily

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Hexamethylene diacrylate	2.81	-	Low
Propylidynetrimethanol,	2.89	-	Low
ethoxylated, esters with acrylic acid			
Dipropylenglycol diacrylate	0.01 to 0.39	-	Low
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	2	-	Low
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	5.77	<5	Low
2-Butoxyethanol	0.81	-	Low

#### **12.4 Mobility in soil**

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## **SECTION 12: Ecological information**

Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

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

#### 13.1 Waste treatment methods

## **Product**

Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	: 080111*
Packaging	
Methods of disposal	<ul> <li>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.</li> </ul>
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	ΙΑΤΑ
14.1 UN number or ID number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	NVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)	NVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.

: 13/07/2022

SECTION 14: Transp	
Additional information	
ADR/RID	<ul> <li>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.</li> <li><u>Tunnel code</u> (-)</li> </ul>
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.
ΙΑΤΑ	<ul> <li>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.</li> </ul>
14.6 Special precautions for user	: <b>Transport within user's premises:</b> 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 <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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]	
VILUX 1745-02		≥90	3	
Labelling	: 🔽			
<u>Other EU regulations</u>				
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed			
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed			
Explosive precursors	: Not applicab	le.		
Ozone depleting substance	<u>ces (1005/2009/E</u>	<u>:U)</u>		
Not listed.				
Prior Informed Consent (P	PIC) (649/2012/E	U)		
Not listed.		-		
Persistent Organic Polluta Not listed.	ants			
Seveso Directive				
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### **SECTION 15: Regulatory information**

This product is controlled under the Seveso Directive.

#### Danger criteria

Category

E1

National regulations				
<u>Austria</u>				
VbF class	: Not regulated.			
Limitation of the use of organic solvents	: Permitted.			
Czech Republic				
Storage code	: IV			
<u>Denmark</u>				
Danish fire class	: IV-1			
Executive Order No. 1795/2015				

: 0-6

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

#### MAL-code

**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<sup>\*</sup> 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.

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- Air-supplied full mask	protective clothing a	ind hood must be worn.

		<b>Drying:</b> 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.
		<b>Polishing:</b> 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.
		<b>Caution</b> 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.
<u>Finland</u>		
<u>France</u>		
Social Security Code, Articles L 461-1 to L 461-7		(1-methyl-1,2-ethanediyl)bis[oxy(methyl- 2,1-ethanediyl)] diacrylate
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable
<u>Germany</u>		
Storage class (TRGS 510)	:	10

#### Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category		Reference number
E1		1.3.1
Hazard class for water	: 2	I
Technical instruction on air quality control	:	
ΑΟΧ	: The product contains organically bound halogens and value in waste water.	can contribute to the AOX
<u>Italy</u>		
D.Lgs. 152/06	: Not determined.	
Netherlands		
Water Discharge Policy (ABM)	: A(1) Highly toxic for aquatic organisms, may have long aquatic environment. Decontamination effort: A	g-term hazardous effects ir
<u>Norway</u>		
<u>Sweden</u>		
<u>Switzerland</u>		
VOC content	: Exempt.	
nternational regulations		
hemical Weapon Convent	ion List Schedules I, II & III Chemicals	
Not listed.		
Iontreal Protocol		

## **SECTION 15: Regulatory information**

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

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

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>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</li> </ul>
	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 Acute 1, H400	Calculation method
Aquatic Chronic 2, H411	Calculation method

#### Full text of abbreviated H statements

<b>⊮</b> 302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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. 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	
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SECTION 16: Other information				
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2			
Skin Sens. 1	SKIN SENSITISATION - Category 1			
Skin Sens. 1A	SKIN SENSITISATION - Category 1A			
Skin Sens. 1B	SKIN SENSITISATION - Category 1B			
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.