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 21436 BLACK

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

1.1 Product identifier

Product name : UVILUX 1745-02 - HARDTOP TS 21436 BLACK

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

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	:	
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 Appex 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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Hexamethylene diacrylate	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]
pentaerythritol tetraacrylate	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]
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	REACH #: 01-2119489900-30 EC: 500-066-5 CAS: 28961-43-5	≥10 - ≤25	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1]
Dipropylenglycol diacrylate	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]
Methylbenzoylformiat	REACH #: 01-2120101338-67 EC: 239-263-3 CAS: 15206-55-0	≤3	Skin Sens. 1, H317	-	[1]

SECTION 3: Compo	sition/informat	ion on in	gredients		
Benzene, (1-methylethenyl)- , homopolymer, ar- (2-hydroxy-2-methyl- 1-oxopropyl) derivs.	CAS: 163702-01-0	<3	Repr. 2, H361f	-	[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]
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]
(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]
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	<0.1	Acute Tox. 2, H330 Aquatic Acute 1, H400 See Section 16 for the full text of the H statements declared	ATE [Inhalation (dusts and mists)] = 0.12 mg/l M [Acute] = 10	[1]

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.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing 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

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SECTION 5: Firefighting measures

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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, prot	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 c	ontainment 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
2-Butoxyethanol copper bis(dimethyldithiocarbamate)	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. PEAK: 40 ppm, 4 times per shift, 30 minutes. PEAK: 200 mg/m³, 4 times per shift, 30 minutes. Regulation on Limit Values - MAC (Austria, 4/2021). [Copper and its compounds] TWA: 1 mg/m³, (measured as Cu) 8 hours. Form: Inhalable fraction PEAK: 4 mg/m³, (measured as Cu), 4 times per shift, 15 minutes. Form: Inhalable fraction Regulation on Limit Values - MAC (Austria, 4/2021). [Copper and its compounds] TWA: 1 mg/m³, (measured as Cu), 4 times per shift, 15 minutes. Form: Inhalable fraction Regulation on Limit Values - MAC (Austria, 4/2021). [Copper and its compounds (Fume)] TWA: 0.1 mg/m³, (measured as Cu) 8 hours. Form: respirable
ate of issue/Date of revision : 17/04/2024	Date of previous issue : No previous validation Version : 1 6/26
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SECTION 8: Exposure controls/personal protection fume PEAK: 0.4 mg/m³, (measured as Cu), 4 times per shift, 15 minutes. Form: respirable fume 2-Butoxyethanol Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m³ 15 minutes. Ministry of Labour and Social Policy and the Ministry of 2-Butoxyethanol 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. copper bis(dimethyldithiocarbamate) Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Copper oxides and inorganic compounds (as copper)] Limit value 8 hours: 1 mg/m³, (as copper) 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ 2-Butoxyethanol STELV (Croatia, 1/2021). Absorbed through skin. STELV: 246 mg/m³ 15 minutes. STELV: 50 ppm 15 minutes. ELV: 98 mg/m³ 8 hours. ELV: 20 ppm 8 hours. 2-Butoxyethanol Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 50 ppm 15 minutes. STEL: 246 mg/m³ 15 minutes. TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. 2-Butoxyethanol Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 100 mg/m³ 8 hours. TWA: 20.4 ppm 8 hours. STEL: 200 mg/m³ 15 minutes. STEL: 40.8 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Absorbed 2-Butoxyethanol through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. STEL: 246 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. 2-Butoxyethanol Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 98 mg/m³ 8 hours. TWA: 20 ppm 8 hours. STEL: 246 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. copper bis(dimethyldithiocarbamate) Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). [Copper and inorganic compounds] TWA: 0.2 mg/m³, (calculated as Cu) 8 hours. Form: Respirable dust TWA: 1 mg/m³, (calculated as Cu) 8 hours. Form: Total dust 2-Butoxyethanol EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m³ 15 minutes. 7/26 Date of issue/Date of revision : 17/04/2024 Date of previous issue

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2-Butoxyethanol	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 98 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes. STEL: 250 mg/m ³ 15 minutes.
opper bis(dimethyldithiocarbamate)	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). [Copper and its compounds] TWA: 0.02 mg/m ³ , (calculated as Cu) 8 hours. Form: Respirab
	fraction
-Butoxyethanol	Ministry of Labor (France, 10/2022). Absorbed through skin
	Notes: Binding regulatory limit values (article R. 4412-149 o the Labor Code)
	TWA: 10 ppm 8 hours.
	TWA: 49 mg/m ³ 8 hours.
	STEL: 246 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
lexamethylene diacrylate	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
-Butoxyethanol	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
	TWA: 49 mg/m ³ 8 hours.
	PEAK: 98 mg/m ³ 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 ³ 8 hours.
	PEAK: 98 mg/m ³ , 4 times per shift, 15 minutes.
I-methyl-1,2-ethanediyl)bis[oxy(methyl-	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
,1-ethanediyl)] diacrylate	
opper bis(dimethyldithiocarbamate)	DFG MAC-values list (Germany, 7/2022). [Copper and its
	inorganic compounds]
	PEAK: 0.02 mg/m ³ , 4 times per shift, 15 minutes. Form: respirable fraction
	TWA: 0.01 mg/m ³ 8 hours. Form: respirable fraction
Putovy/othonal	
-Butoxyethanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin. TWA: 25 ppm 8 hours.
	TWA: 20 mg/m ³ 8 hours.
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-Butoxyethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 98 mg/m ³ 8 hours.
	PEAK: 246 mg/m ³ 15 minutes.
	PEAK: 50 ppm 15 minutes.
	TWA: 20 ppm 8 hours.
opper bis(dimethyldithiocarbamate)	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [Copper and i
	compounds]
	TWA: 0.1 mg/m ³ , (as Cu) 8 hours.
	PEAK: 0.2 mg/m³, (as Cu) 15 minutes.
-Butoxyethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 5/202
	Absorbed through skin.
	STEL: 246 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes. TWA: 100 mg/m ³ 8 hours.
	TWA: 100 mg/m° 8 nours. TWA: 20 ppm 8 hours.
-Butoxyethanol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: El derived Occupational Exposure Limit Values
	OELV-8hr: 20 ppm 8 hours.
	OELV-8hr: 98 mg/m ³ 8 hours.
	OELV-011. 98 mg/m 8 hours. OELV-15min: 50 ppm 15 minutes.
	OELV-15min: 246 mg/m ³ 15 minutes.
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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/m³ 8 hours. Short Term: 50 ppm 15 minutes. Short Term: 246 mg/m³ 15 minutes.
2-Butoxyethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 98 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
2-Butoxyethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 50 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. STEL: 100 mg/m ³ 15 minutes. STEL: 20 ppm 15 minutes.
copper bis(dimethyldithiocarbamate)	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). [Copper and its inorganic compounds] TWA: 0.2 mg/m ³ , (as Cu) 8 hours. Form: Respirable fraction TWA: 1 mg/m ³ , (as Cu) 8 hours. Form: Inhalable fraction
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 ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 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 ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 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 ³ 8 hours. STEL,15-min: 246 mg/m ³ 15 minutes. OEL, 8-h TWA: 20.4 ppm 8 hours. STEL,15-min: 50 ppm 15 minutes.
copper bis(dimethyldithiocarbamate)	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). [copper and inorganic copper compounds] OEL, 8-h TWA: 0.1 mg/m ³ 8 hours. Form: Inhalable fraction
2-Butoxyethanol	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 10 ppm 8 hours. TWA: 50 mg/m ³ 8 hours.
2-Butoxyethanol	Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 98 mg/m ³ 8 hours. STEL: 200 mg/m ³ 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 as Cu] TWA: 0.2 mg/m ³ , (calculated as Cu) 8 hours.

2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours.
2-Butoxyethanol	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 98 mg/m ³ 8 hours. VLA: 20 ppm 8 hours. Short term: 246 mg/m ³ 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 ³ 8 hours. TWA: 20 ppm 8 hours. STEL: 246 mg/m ³ 15 minutes.
copper bis(dimethyldithiocarbamate)	STEL: 50 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Copper and its inorganic compounds] TWA: 1 mg/m ³ , (Copper and its inorganic compounds, as Cu) 8 hours. Form: Inhalable fraction TWA: 0.2 mg/m ³ , (Copper and its inorganic compounds, as Cu) hours. Form: respirable fraction and fumes
P-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 ³ 8 hours. TWA: 20 ppm 8 hours. KTV: 246 mg/m ³ , 4 times per shift, 15 minutes. KTV: 50 ppm, 4 times per shift, 15 minutes.
P-Butoxyethanol	National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 245 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes.
opper bis(dimethyldithiocarbamate)	National institute of occupational safety and health (Spain, 4/2022). [copper compounds] TWA: 0.01 mg/m ³ , (as Cu) 8 hours. Form: Respirable fraction
-Butoxyethanol	Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. TWA: 10 ppm 8 hours. TWA: 50 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
opper bis(dimethyldithiocarbamate)	Work environment authority Regulation 2018:1 (Sweden, 9/2021). [copper and inorganic compounds respirable fractio (as Cu)] TWA: 0.01 mg/m ³ , (as Cu) 8 hours. Form: respirable fraction
-Butoxyethanol	SUVA (Switzerland, 1/2023). Absorbed through skin. TWA: 10 ppm 8 hours. TWA: 49 mg/m ³ 8 hours. STEL: 20 ppm 15 minutes. STEL: 98 mg/m ³ 15 minutes.
opper bis(dimethyldithiocarbamate)	SUVA (Switzerland, 1/2023). [Copper and its inorganic compounds] TWA: 0.1 mg/m ³ , (As Cu calculated) 8 hours. Form: Inhalable fraction STEL: 0.2 mg/m ³ , (As Cu calculated) 15 minutes. Form: Inhalab fraction

SECTION 8: Exposure controls/personal protection

SECTION 6. Exposure controls/personal protection				
2-Methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed			
	through skin.			
	STEL: 548 mg/m ³ 15 minutes.			
	TWA: 50 ppm 8 hours.			
	TWA: 274 mg/m ³ 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 ³ 15 minutes.			
	TWA: 123 mg/m ³ 8 hours.			
2-ethylhexan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020).			
	TWA: 5.4 mg/m ³ 8 hours.			
	TWA: 1 ppm 8 hours.			
Cyclohexane	EH40/2005 WELs (United Kingdom (UK), 1/2020).			
	STEL: 1050 mg/m ³ 15 minutes.			
	STEL: 300 ppm 15 minutes.			
	TWA: 100 ppm 8 hours.			
	TWA: 350 mg/m ³ 8 hours.			
copper bis(dimethyldithiocarbamate)	EH40/2005 WELs (United Kingdom (UK), 1/2020). [Copper and			
	compounds dust and mists, as Cu]			
	STEL: 2 mg/m ³ , (as Cu) 15 minutes. Form: Dusts and Mists			
	TWA: 1 mg/m ³ , (as Cu) 8 hours. Form: Dusts and Mists			

Biological exposure indices

Product/ingredient name	Exposure indices
No exposure indices known.	
2-Butoxyethanol	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week. Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.
No exposure indices known.	
2-Butoxyethanol	 DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of the shift after several shifts.
copper bis(dimethyldithiocarbamate)	DFG BEI-values list (Germany, 7/2022) [Copper and its inorganic compounds] BEI: See Section XV.2: For the following substances currently no BAR may be derived, but there is documentation in the

	"Occupational medicine and toxicology Justifications for BAT
	values, EKA, BLW, and BAR", copper [in urine]. Sampling time: Sample time not specified.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
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	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.
No exposure indices known.	
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.
2-Butoxyethanol	National institute of occupational safety and health (Spain, 4/2022) VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling time: end of shift.
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.
2-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.
Recommended monitoring : procedures	Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Hexamethylene diacrylate	DNEL	Long term	7.2 mg/m ³	General	Systemic
	DNEL	Inhalation Long term Dermal	1.66 mg/	population General	Systemic
	DNEL	Long term Oral	kg bw/day 2.1 mg/kg	population General	Systemic
	DNEL	Long term Dermal	bw/day 2.77 mg/	population Workers	Systemic
	DNEL	Long term	kg bw/day 24.5 mg/m³	Workers	Systemic
Propylidynetrimethanol, ethoxylated,	DNEL	Inhalation Long term Dermal	10.5 mg/	Workers	Systemic
esters with acrylic acid	DNEL	Long term	kg bw/day 37 mg/m³	Workers	Systemic
Dipropylenglycol diacrylate	DNEL	Inhalation Long term Dermal	1.66 mg/	General	Systemic
	DNEL	Long term Oral	kg bw/day 2.08 mg/	population General	Systemic
	DNEL	Long term Dermal	kg bw/day 2.77 mg/	population Workers	Systemic
	DNEL	Long term	kg bw/day 7.24 mg/m³	General	Systemic
	DNEL	Inhalation Long term	24.48 mg/	population Workers	Systemic
Methylbenzoylformiat	DNEL	Inhalation Long term Oral	m³ 1.67 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 1.67 mg/	population General	Systemic
	DNEL	Long term Dermal	kg bw/day 3.33 mg/	population Workers	Systemic
Benzene, (1-methylethenyl)-, homopolymer, ar-(2-hydroxy-	DNEL	Long term Oral	kg bw/day 5.28 µg/kg bw/day	General population	Systemic
2-methyl-1-oxopropyl) derivs.	DNEL	Long term Dermal	5.28 µg/kg	General	Systemic
	DNEL	Long term Inhalation	bw/day 9.18 µg/m³	population General population	Systemic
	DNEL	Long term Dermal	14.8 µg/kg	Workers	Systemic
	DNEL	Long term Inhalation	bw/day 52.1 µg/m³	Workers	Systemic
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	DNEL	Long term	21 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	21 mg/m³	Workers	Systemic
	DNEL DNEL	Long term Dermal Short term Dermal	3.3 mg/kg 3.3 mg/kg	Workers Workers	Systemic Systemic
	DNEL	Long term Inhalation	5.2 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	1.5 mg/kg	[Consumers] General population	Systemic
	DNEL	Long term Oral	1.5 mg/kg	[Consumers] General population	Systemic
	DNEL	Short term Oral	1.67 ng/kg bw/day	[Consumers] General population	Systemic
	DNEL	Long term Oral	1.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	1.67 mg/ kg bw/day	General population	Systemic

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ECTION 8: Exposure con	trols/p	ersonal prote	ction		
	DNEL	Short term	1.93 mg/m ³	General	Systemic
		Inhalation	5	population	,
	DNEL	Long term	1.93 mg/m ³	General	Systemic
		Inhalation		population	-,
	DNEL	Long term Dermal	3 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	3.33 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	7.84 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	7.84 mg/m ³	Workers	Systemic
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
	DINEL		bw/day	population	Systemic
	DNEL	Short term Oral	26.7 mg/	General	Systemic
	DINEL	Short term Oral			Systemic
		1	kg bw/day	population	0
	DNEL	Long term	59 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Inhalation	98 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	147 mg/m ³	General population	Local
	DNEL	Short term Inhalation	246 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	426 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	1091 mg/ 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 ³	Workers	Systemic
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters	DNEL	Long term Inhalation	1.17 mg/m ³	Workers	Systemic
with acrylic acid	DNEL	Long term Dermal	33 mg/kg bw/day	Workers	Systemic
Oligotriacrylate	DNEL	Long term Inhalation	7.4 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	2.1 mg/kg bw/day	Workers	Systemic

PNECs

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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 meas	<u>sures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

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SECTION 8: Exposure controls/personal protection

-	
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: 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

Appearance	
Physical state	: Liquid.
Colour	: Black.
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and	:
boiling range	

Ingredient name		°C	°F	Method	
Polyethylene wax		341 to 665	645.8 to 1229	EN ISO 15199	
Propylidynetrimethanol, ethoxylated, e acrylic acid	esters with	>391	>735.8	OECD 103	
lammability	: Not ava	ailable.	ł		
ower and upper explosion		Not applicable Not applicable			
lash 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 ava	ailable.			
Н	: Not ap	olicable.			
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SECTION 9: Physical and chemical properties

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Viscosity	: Not available.
Solubility(ies)	: · · · · · · · · · · · · · · · · · · ·
Not available.	
Solubility in water	: Not available.

Partition coefficient: n-octanol/ : Not applicable. water

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
Dipropylenglycol 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				
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	specific test data related to reactivity available	for this product or its ingredients.
10.2 Chemical stability	e product is stable.	
10.3 Possibility of hazardous reactions	der normal conditions of storage and use, haza	ardous reactions will not occur.
10.4 Conditions to avoid	specific data.	
10.5 Incompatible materials	specific data.	
10.6 Hazardous decomposition products	der normal conditions of storage and use, haza ould not be produced.	ardous decomposition products

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Ilt Species		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	-	
Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-	LD50 Oral	Rat	>2000 mg/kg	-	
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	LD50 Oral	Rat	6200 mg/kg	-	
copper bis	LC50 Inhalation Dusts and	Rat	0.12 mg/l	4 hours	
(dimethyldithiocarbamate)	mists				
	LD50 Dermal	Rabbit	>2000 mg/kg	-	

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SECTION 11: Toxicological information LD50 Oral Rat >5000 mg/kg

Conclusion/Summary

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

Acute toxicity estimates

Route	ATE value	
Oral	3448.01 mg/kg	
Inhalation (vapours)	446.16 mg/l	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hexamethylene diacrylate	Skin - Severe irritant	Rabbit	-	24 hours 500	-
				mg	
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Eyes - Moderate irritant	Rabbit	-	100 mg	-
-	Skin - Moderate irritant	Rabbit	-	500 mg	-
Dipropylenglycol diacrylate	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Severe 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	-
(1-methyl-1,2-ethanediyl)bis	Eyes - Severe irritant	Rabbit	-	24 hours 100	-
[oxy(methyl-2,1-ethanediyl)] diacrylate				uL	
-	Skin - Moderate 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		
Conclusion/Summary : Based on available data, the classification criteria are not met.					
Carcinogenicity					
Conclusion/Summary	Conclusion/Summary : Based on available data, the classification criteria are not met.				
Reproductive toxicity					
Conclusion/Summary : Based on available data, the classification criteria are not met.					
Teratogenicity					
Conclusion/Summary	nclusion/Summary : Based on available data, the classification criteria are not met.				
Specific target organ toxicit	<u>y (single exposure)</u>				

Product/ingredient name	Category	Route of exposure	Target organs
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	Category 3	-	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	<u>S</u>
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following:
	pain
	watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following:
	pain or irritation
	redness
	blistering may occur
Ingestion	
	blistering may occurAdverse symptoms may include the following: stomach pains
Delayed and immediate effect	blistering may occur : Adverse symptoms may include the following:
Delayed and immediate effect Short term exposure Potential immediate	blistering may occurAdverse symptoms may include the following: stomach pains
<u>Delayed and immediate effec</u> <u>Short term exposure</u> Potential immediate effects	 blistering may occur Adverse symptoms may include the following: stomach pains cts as well as chronic effects from short and long-term exposure Not available.
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects	 blistering may occur Adverse symptoms may include the following: stomach pains
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure	 blistering may occur Adverse symptoms may include the following: stomach pains cts as well as chronic effects from short and long-term exposure Not available. Not available.
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects	 blistering may occur Adverse symptoms may include the following: stomach pains cts as well as chronic effects from short and long-term exposure Not available.
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate	 blistering may occur Adverse symptoms may include the following: stomach pains cts as well as chronic effects from short and long-term exposure Not available. Not available.
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects	 blistering may occur Adverse symptoms may include the following: stomach pains cts as well as chronic effects from short and long-term exposure Not available. Not available. Not available. Not available. Not available.
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects	 blistering may occur Adverse symptoms may include the following: stomach pains cts as well as chronic effects from short and long-term exposure Not available. Not available. Not available. Not available. Not available.
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects	 blistering may occur Adverse symptoms may include the following: stomach pains cts as well as chronic effects from short and long-term exposure Not available. Not available. Not available. Not available. Not available.
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health effects Not available.	 blistering may occur Adverse symptoms may include the following: stomach pains cts as well as chronic effects from short and long-term exposure Not available. Not available. Not available. Not available. Not available.
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health effects Not available. Conclusion/Summary	 blistering may occur Adverse symptoms may include the following: stomach pains cts as well as chronic effects from short and long-term exposure Not available. Not available. Not available. ects Not available. Once sensitized, a severe allergic reaction may occur when subsequently exposed
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential immediate effects Potential delayed effects Potential chronic health effects Not available. Conclusion/Summary General	 blistering may occur Adverse symptoms may include the following: stomach pains cts as well as chronic effects from short and long-term exposure Not available. Not available. Not available. ects Not available. Conce sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
Hexamethylene diacrylate	EC50 1.09 mg/l	Algae - Selenastrum capricornutum	72 hours
	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
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 - 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 - Daphnia magna	48 hours
-	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
copper bis (dimethyldithiocarbamate)	Acute LC50 71 µg/l Fresh water	Fish - Pimephales promelas	96 hours

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, ethoxylated, esters with	2.89	-	Low
acrylic acid			
Dipropylenglycol diacrylate	0.01 to 0.39	-	Low
Phosphine oxide, phenylbis	5.77	<5	Low
(2,4,6-trimethylbenzoyl)-			
2-Butoxyethanol	0.81	-	Low
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	2	-	Low
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-	1.6 to 3	-	Low
2,3-epoxypropane, esters			
with acrylic acid			
Oligotriacrylate	2.52	-	Low

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

12.5 Results of PBT and vPvB assessment

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

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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.
European waste catalogue (EWC)	: 080111*
Packaging	
Methods of disposal	 The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	-			
	ADR/RID	ADN	IMDG	ΙΑΤΑ
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	111	111	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.
Additional informa				
ADR/RID	: This produce	ct is not regulated as a da	angerous good when trai	nsported 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.

SECTION 14: Transp	or	t information
IMDG	:	This product is not regulated as a dangerous good when transported in sizes of \leq 5 L or \leq 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	:	This product is not regulated as a dangerous good when transported in sizes of \leq 5 L or \leq 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.
14.6 Special precautions for user	:	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.
OFOTION 45. Desure	4	

SECTION 15: Regulatory information

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

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Product/ingredient name		%	Designation [Usage]		
UVILUX 1745-02		≥90	3		
Labelling	:				
ther EU regulations					
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 substanc	<u>es (1005/2009/E</u>	<u>:U)</u>			
Not listed.					
Prior Informed Consent (P Not listed.	<u>IC) (649/2012/E</u>	<u>n)</u>			
Persistent Organic Polluta Not listed.	<u>ints</u>				
Seveso Directive					
This product is controlled un	der the Seveso I	Directive.			
Danger criteria					
Category					
E1					
ational regulations					
Austria					
e of issue/Date of revision	: 17/04/2024	Date of previo	bus issue : No previous validation	Version :1	21/2
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SECTION 15: Regulatory information

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/	<u>015</u>		
Ingredient name		Annex I Section A	Annex I Section B
carbon black respirable		Listed	-
MAL-code	: 0-6		-
MAL-code Protection based on MAL	: According to the regula	ations on work involving coded p ne use of personal protective equi	

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.

SECTION 15: Regulatory information

		Drying: Items for drying/drying ovens that are tempor rack trolleys, etc, must be equipped with a mechanica fumes from wet items from passing through workers'	I exhaust system to prevent
		Polishing: When polishing treated surfaces, a mask When machine grinding, eye protection must be worn 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 Working Environment Authorities Executive Order reg	
List of undesirable substances	1	Not listed	
Carcinogenic waste	1	Waste containers must be labeled: Contains a substa by Danish working environment legislation on cancer	
<u>Finland</u>			
<u>France</u>			
Social Security Code, Articles L 461-1 to L 461-7	-	2-Butoxyethanol (1-methyl-1,2-ethanediyl)bis[oxy(methyl- 2,1-ethanediyl)] diacrylate	RG 84 RG 84
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities w medical surveillance: not applicable	hich require reinforced
<u>Germany</u>			
Storage class (TRGS 510)	:	10	
and the second second second			

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		
Technical instruction on air quality control	: TA-Luft Number 5.2.5: 60% TA-Luft Class I - Number 5.2.5: 2%		
ΑΟΧ	: The product contains organically bound halogens and can contribute to the AOX value in waste water.		
<u>Italy</u>			

D.Lgs. 152/06 : Not determined.

Netherlands

Ministry of Social Affairs and Employment (SZW) - Carcinogenic substances and processes, mutagenic or reprotoxic substances

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
Naphtha (petroleum), hydrodesulfurized heavy	Listed	Listed	-	-	-
Water Discharge Polic (ABM)	environme	ent (carcinogenici	ostances with hazar ty/ mutagenicity/ rep contamination effort	protoxicity/ bioacur	
<u>Norway</u>					
<u>Sweden</u>					
Switzerland					
te of issue/Date of revision	: 17/04/202	A Date of previous	issue : No pre	evious validation	/ersion :1 23/2
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SECTION 15: Regulatory information	
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 : This product contains substances for which Chemical Sarequired.	afety Assessments are still

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H330	Fatal if inhaled.	
H331	Toxic if inhaled.	
H335	May cause respiratory irritation.	
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]

SECTION 16: Other information

SECTION 10. OU	
Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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revision	
Date of previous issue	e : No previous validation
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Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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