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

SAFETY DATA SHEET



UVILUX SEALER 1453-02 - HY 0020 CLEAR

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

1.1 Product identifier

Product name : UVILUX SEALER 1453-02 - HY 0020 CLEAR

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 STOT SE 3, H335 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. H335 - May cause respiratory irritation. H411 - Toxic to aquatic life with long lasting effects. 	
Precautionary statements		
Prevention	 P280 - Wear protective gloves. Wear eye or face protectio P273 - Avoid release to the environment. 	n.

SECTION 2: Hazards identification

Response	 P391 - Collect spillage. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Contains: 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, esters with acrylic acid; (1-methyl-1,2-ethanediyl)bis[oxy(methyl- 2,1-ethanediyl)] diacrylate; Dipropylenglycol diacrylate and 2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester, reaction products with diethylamine
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	
Due due transfer the putterie	. This mixture does not contain any substances that are accessed to be a DPT or a

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	
Other hazards which do not result in classification	None known.	

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
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	≥25 - ≤50	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[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	≥10 - ≤25	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]
Dipropylenglycol diacrylate	REACH #: 01-2119484629-21 EC: 260-754-3 CAS: 57472-68-1	≥10 - ≤25	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	-	[1]
Ethoxylated acrylated ester	-	≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester, reaction products with diethylamine	REACH #: 01-2119961351-42 CAS: 111497-86-0	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
Propylidynetrimethanol,	REACH #:	≤5	Eye Irrit. 2, H319	-	[1]

ethoxylated, esters with	01-2119489900-30		Skin Sens. 1, H317		
acrylic acid	EC: 500-066-5 CAS: 28961-43-5		Aquatic Chronic 3, H412		
2-hydroxy- 2-methylpropiophenone	REACH #: 01-2119472306-39 EC: 231-272-0 CAS: 7473-98-5	≤3	Acute Tox. 4, H302 Aquatic Chronic 3, H412	ATE [Oral] = 1694 mg/kg	[1]
Fatty acids, C14-18 and C16-18-unsatd., maleated	REACH #: 01-2119976378-19 EC: 288-306-2 CAS: 85711-46-2	≤0.3	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤0.3	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
Maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071 See Section 16 for the full text of the H statements declared	ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C ≥ 0.001%	[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. <u>Type</u>

I 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.
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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 4: First aid measures

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	: Adverse symptoms may include the following: respiratory tract irritation coughing
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	: In case of inhalation of decomposition products in a fire, symptoms may be delayed.
	The exposed person may need to be kept under medical surveillance for 48 hours.
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 f	rom the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

SECTION 5: Firefighting measures

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Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.	
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures For non-emergency : No action shall be taken involving any personal risk or without suitable training. personnel 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 : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains precautions 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 container.
Large spill	 licensed waste disposal contractor. 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

SECTION 7: Handling and storage

	U	5
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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 criteriaCategoryNotification and MAPP
thresholdSafety report thresholdE2200 tonne500 tonne

7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

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 valuesRegulation on Limit Values - MAC (Austria, 4/2021). Skin sensitiser. Inhalation sensitiser.TWA: 0.1 ppm 8 hours.TWA: 0.4 mg/m³ 8 hours.CEIL: 0.2 ppm, 8 times per shift, 5 minutes.CEIL: 0.8 mg/m³, 8 times per shift, 5 minutes.			
Maleic anhydride				
✓Butoxyethanol Maleic anhydride	Limit values (Belgium, 5/2021). 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. Limit values (Belgium, 5/2021). TWA: 0.0025 ppm 8 hours. Form: vapour and aerosol TWA: 0.01 mg/m ³ 8 hours. Form: vapour and aerosol			
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SECTION 8: Exposure controls/personal protection 2-Butoxyethanol Ministry of Labour and Social Policy and the Ministry of 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. Maleic anhydride Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 1 mg/m³ 8 hours. 2-Butoxyethanol Ministry of Economy, Labour and Entrepreneurship ELV/ 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. Ministry of Economy, Labour and Entrepreneurship ELV/ Maleic anhydride STELV (Croatia, 1/2021). Skin sensitiser. Inhalation sensitiser. STELV: 0.2 ppm 15 minutes. ELV: 0.41 mg/m³ 8 hours. STELV: 0.8 mg/m³ 15 minutes. ELV: 0.1 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. Maleic anhydride Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Skin sensitiser. TWA: 1 ma/m³ 8 hours. TWA: 0.245 ppm 8 hours. STEL: 2 mg/m³ 15 minutes. STEL: 0.49 ppm 15 minutes. 2-Butoxyethanol Working Environment Authority (Denmark, 6/2022). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. STEL: 246 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Maleic anhydride TWA: 0.1 ppm 8 hours. TWA: 0.4 mg/m³ 8 hours. STEL: 0.8 mg/m³ 15 minutes. STEL: 0.2 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. Maleic anhydride Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Skin sensitiser. TWA: 1.2 mg/m³ 8 hours. TWA: 0.3 ppm 8 hours. STEL: 2.5 mg/m³ 15 minutes. STEL: 0.6 ppm 15 minutes.

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ECTION 8: Exposure controls 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.
Maleic anhydride	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). TWA: 0.1 ppm 8 hours.
	TWA: 0.11 ppm o hours. TWA: 0.41 mg/m ³ 8 hours.
	CEIL: 0.2 ppm
	CEIL: 0.81 mg/m ³
2-Butoxyethanol	Ministry of Labor (France, 10/2022). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 of
	the Labor Code)
	TWA: 10 ppm 8 hours. TWA: 49 mg/m³ 8 hours.
	STEL: 246 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
Maleic anhydride	Ministry of Labor (France, 10/2022). Sensitization potential.
	Notes: Permissible limit values (circulars)
	STEL: 1 mg/m ³ 15 minutes.
1-methyl-1,2-ethanediyl)bis[oxy(methyl- 2,1-ethanediyl)] diacrylate	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
2. Butoxyethanol	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
2 Batoxyothanol	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.
Maleic anhydride	TRGS 900 OEL (Germany, 6/2022). Skin sensitiser. Inhalation
	Sensitiser. TWA: 0.081 mg/m³ 8 hours.
	CEIL: 0.2025 mg/m ³
	TWA: 0.02 ppm 8 hours.
	CEIL: 0.05 ppm
	PEAK: 0.081 mg/m ³ 15 minutes.
	PEAK: 0.02 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
	Inhalation sensitiser.
	TWA: 0.02 ppm 8 hours.
	CEIL: 0.05 ml/m ³
	TWA: 0.081 mg/m ³ 8 hours.
	CEIL: 0.2 mg/m^3
	PEAK: 0.081 mg/m ³ , 4 times per shift, 15 minutes. PEAK: 0.02 ppm, 4 times per shift, 15 minutes.
2-Butoxyethanol	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 120 mg/m ³ 8 hours.
Maleic anhydride	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 0.25 ppm 8 hours. TWA: 1 mg/m³ 8 hours.
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SECTION 8: Exposure controls/personal protection				
2-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.			
Maleic anhydride	 TWA: 20 ppm 8 hours. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser. TWA: 0.08 mg/m³ 8 hours. PEAK: 0.08 mg/m³ 15 minutes. PEAK: 0.2 ppm 15 minutes. TWA: 0.2 ppm 8 hours. 			
∠-Butoxyethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin. STEL: 246 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 100 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.			
Maleic anhydride	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Skin sensitiser. TWA: 0.4 mg/m ³ 8 hours. TWA: 0.1 ppm 8 hours.			
2-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 ³ 8 hours. OELV-15min: 50 ppm 15 minutes.			
Maleic anhydride	OELV-15min: 246 mg/m ³ 15 minutes. NAOSH (Ireland, 5/2021). Sensitization potential. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 0.01 ppm 8 hours. Form: The Inhalable Fraction and Vapour note is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases.			
₽-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 ³ 8 hours. Short Term: 50 ppm 15 minutes. Short Term: 246 mg/m ³ 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.			
Maleic anhydride	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 1 mg/m ³ 8 hours.			
∠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.			
Maleic anhydride	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Skin sensitiser. Inhalation sensitiser. TWA: 1.2 mg/m ³ 8 hours. TWA: 0.3 ppm 8 hours. STEL: 2.5 mg/m ³ 15 minutes. STEL: 0.6 ppm 15 minutes.			
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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: lis 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.
2-Butoxyethanol	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 10 ppm 8 hours.
Maleic anhydride	TWA: 50 mg/m ³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser. TWA: 0.2 ppm 8 hours. TWA: 0.8 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.
Maleic anhydride	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: 0.5 mg/m ³ 8 hours. STEL: 1 mg/m ³ 15 minutes.
-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours.
Maleic anhydride	Portuguese Institute of Quality (Portugal, 11/2014). Skin sensitiser. TWA: 0.01 mg/m ³ 8 hours. Form: Inhalable fraction and vapor
aleic anhydride	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 1 mg/m ³ 8 hours. VLA: 0.25 ppm 8 hours. Short term: 3 mg/m ³ 15 minutes. Short term: 0.75 ppm 15 minutes.
Z-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. STEL: 50 ppm 15 minutes.
Maleic anhydride	Government regulation SR c. 355/2006 (Slovakia, 9/2020). Sk sensitiser. TWA: 0.41 mg/m ³ 8 hours. TWA: 0.1 ppm 8 hours.

SECTION 8: Exposure controls/personal protection 2-Butoxvethanol 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/m³ 8 hours. TWA: 20 ppm 8 hours. KTV: 246 mg/m³, 4 times per shift, 15 minutes. KTV: 50 ppm, 4 times per shift, 15 minutes. Maleic anhydride Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 0.41 mg/m³ 8 hours. TWA: 0.1 ppm 8 hours. KTV: 0.41 mg/m³, 4 times per shift, 15 minutes. KTV: 0.1 ppm, 4 times per shift, 15 minutes. Maleic anhydride National institute of occupational safety and health (Spain, 4/2022). Skin sensitiser. Inhalation sensitiser. TWA: 0.1 ppm 8 hours. TWA: 0.4 mg/m³ 8 hours. 2-Butoxyethanol Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. TWA: 10 ppm 8 hours. TWA: 50 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m³ 15 minutes. Maleic anhydride Work environment authority Regulation 2018:1 (Sweden, 9/2021). Skin sensitiser. TWA: 0.05 ppm 8 hours. TWA: 0.2 mg/m³ 8 hours. STEL: 0.1 ppm 15 minutes. STEL: 0.4 mg/m³ 15 minutes. 2-Butoxyethanol SUVA (Switzerland, 1/2023). Absorbed through skin. TWA: 10 ppm 8 hours. TWA: 49 mg/m³ 8 hours. STEL: 20 ppm 15 minutes. STEL: 98 mg/m³ 15 minutes. Maleic anhydride SUVA (Switzerland, 1/2023). Skin sensitiser. TWA: 0.1 ppm 8 hours. Form: vapour and aerosols TWA: 0.4 mg/m³ 8 hours. Form: vapour and aerosols STEL: 0.1 ppm 15 minutes. Form: vapour and aerosols STEL: 0.4 mg/m³ 15 minutes. Form: vapour and aerosols 2-Butoxyethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours. STEL: 246 mg/m³ 15 minutes. TWA: 123 mg/m³ 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). 2-ethylhexan-1-ol TWA: 5.4 mg/m³ 8 hours. TWA: 1 ppm 8 hours. Acrylic acid EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 59 mg/m³ 1 minutes. STEL: 20 ppm 1 minutes. TWA: 29 mg/m³ 8 hours. TWA: 10 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation Maleic anhydride sensitiser. STEL: 3 mg/m³ 15 minutes. TWA: 1 mg/m³ 8 hours.

Biological exposure indices

Exposure indices		
toxyacetic of the shif tic acid e shift at		
er from rolysis) [in for long- îts. rolysis) [in or long-ter		
time: end		
urine].		

SECTION 8: Exposure controls/personal protection

∠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.
₽-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.

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

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	DNEL	Long term Inhalation	1.17 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	33 mg/kg bw/day	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
Dipropylenglycol diacrylate	DNEL	Long term Dermal	1.66 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	2.08 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2.77 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	7.24 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	24.48 mg/ m³	Workers	Systemic
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	DNEL	Long term Dermal	10.5 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	37 mg/m ³	Workers	Systemic
2-hydroxy-2-methylpropiophenone	DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.9 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	3.5 mg/m³	Workers	Systemic
Fatty acids, C14-18 and	DNEL	Long term Oral	1.5 mg/kg	General	Systemic

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C16-18-unsatd., maleated			bw/day	population	
	DNEL	Long term Dermal	1.5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	3 mg/kg bw/day	Workers	Systemic
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	26.7 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	59 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	98 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	147 mg/m³	General population	Local
	DNEL	Short term Inhalation	246 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	426 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	1091 mg/ m³	Workers	Systemic
Maleic anhydride	DNEL	Long term Inhalation	0.081 mg/ m³	Workers	Local
	DNEL	Long term Inhalation	0.081 mg/ m³	Workers	Systemic
	DNEL	Short term Inhalation	0.2 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	0.2 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	0.05 mg/m ³	population	Systemic
	DNEL	Long term Oral	0.06 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.08 mg/m ³	population	Local
	DNEL	Short term Oral	0.1 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	0.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.1 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	0.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0.2 mg/kg bw/day	Workers	Systemic

PNECs

No PNECs available

8.2 Exposure controls	
Appropriate engineering : controls	Use only with adequate ventilation. 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	<u>5</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.

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SECTION 8: Exposure controls/personal protection

Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	1 - 4 hours (breakthrough time): $4H$ / Silver Shield® gloves.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	Filter type: 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

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

Ingredient name Ingredient name Ingremethyl-1,2-ethanediyl)bis[oxy(methyl- 2,1-ethanediyl)] diacrylate Propylidynetrimethanol, ethoxylated, esters with acrylic acid		°C	°F	Method	
		>120	>248		
		>391	>735.8	OECD 10	3
lammability	: Not ava	ailable.	ŀ	ŀ	
ower and upper explosion mit		Not applicat Not applicat			
lash point	: Closed	cup: >100°C	C (>212°F)		
Auto-ignition temperature	:				
te of issue/Date of revision	: 05/10/2023	Date of prev	vious issue	: 29/06/2023	Version : 1.09 15/26
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SECTION 9: Physical and chemical properties

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

Decomposition temperature	:	Not available.
рН	:	Not applicable.
Viscosity	:	Not available.
Solubility(ies)	:	
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/ water	:	Not applicable.

2

Vapour pressure

	Va	pour Press	ure at 20°C	V	apour pres	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
2-hydroxy-2-methylpropiophenone	0.00428	0.00057	OECD 104	0.09751	0.013	OECD 104
Dipropylenglycol diacrylate	0.00064	0.000085	OECD 104			
Relative density	: Not	available.				
Density	: 1.3	g/cm³				
Vapour density	: Not	available.				
Explosive properties	: Not	available.				

Oxidising properties	: Not available.
Particle characteristics	

Median particle size : N	lot applicable.
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SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

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

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	LD50 Oral	Rat	6200 mg/kg	-
Dipropylenglycol diacrylate	LD50 Oral	Rat	4600 mg/kg	-
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	LD50 Dermal	Rabbit	>13 g/kg	-
2-hydroxy- 2-methylpropiophenone	LD50 Dermal	Rat	6929 mg/kg	-
31 1 1	LD50 Oral	Rat	1694 mg/kg	-
Maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
-	LD50 Oral	Rat	400 mg/kg	-

Conclusion/Summary : Based on available

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

Acute toxicity estimates

Route	ATE value
	86419.93 mg/kg 1249.88 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
-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	-
Dipropylenglycol diacrylate	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Severe irritant	Rabbit	-	500 mg	-
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	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	-
Maleic anhydride	Eyes - Severe irritant	Rabbit	-	1 %	-
Conclusion/Summary	: Causes skin irritation.				

Conclusion/Summary	: Causes skin irritation.
Sensitisation	
Conclusion/Summary	: May cause an allergic skin reaction.
Mutagenicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Carcinogenicity	
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	: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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Product/ingredient name		Category	Route of exposure	Target organs
Maleic anhydride		Category 1	inhalation	respiratory system
Aspiration hazard				
Not available.				
nformation on likely routes f exposure	: Not available.			
otential acute health effects	<u>S</u>			
Eye contact	: Causes serious eye	e damage.		
Inhalation	: May cause respirate	ory irritation.		
Skin contact	: Causes skin irritatio	on. May cause an allerg	ic skin reaction.	
Ingestion	: No known significar	nt effects or critical haza	ırds.	
ymptoms related to the phy	vsical, chemical and to	xicological characteri	<u>stics</u>	
Eye contact	: Adverse symptoms	may include the following	ng:	
	pain watering redness			
Inhalation	: Adverse symptoms respiratory tract irrit coughing	may include the followin ation	ng:	
Skin contact	: Adverse symptoms pain or irritation redness blistering may occu	may include the followin	ng:	
Ingestion	• •	may include the following	ng:	
elaved and immediate effec	ots as well as chronic o	effects from short and	long-term exposi	Ire
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 eff Not available.	<u>ects</u>			
Conclusion/Summary	: Not available.			
General	: Once sensitized, a to very low levels.	severe allergic reaction	may occur when s	ubsequently expose
Carcinogenicity	: No known significar	nt effects or critical haza	ırds.	
Mutagenicity	-	nt effects or critical haza		
Reproductive toxicity	-	nt effects or critical haza		
1.2 Information on other ha 11.2.1 Endocrine disrupting				
Not available.	, proportion			
11.2.2 Other information				

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 800000 µg/l Marine water Acute LC50 1250000 µg/l Marine water	Crustaceans - Crangon crangon Fish - Menidia beryllina	48 hours 96 hours
Maleic anhydride	Acute LC50 230000 µg/l Fresh water	Fish - Gambusia affinis - Adult	96 hours
Conclusion/Summary	: Toxic to aquatic life with long lasting e	effects.	•

12.2 Persistence and degradability

Conclusion/Summary	: This product has not been tested for biodegradation.			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	-	-	Readily	

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, esters with acrylic acid	1.6 to 3	-	Low
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] diacrylate	2	-	Low
Dipropylenglycol diacrylate	0.01 to 0.39	-	Low
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	2.89	-	Low
2-hydroxy- 2-methylpropiophenone	1.62	-	Low
2-Butoxyethanol	0.81	-	Low
Maleic anhydride	-2.78	-	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.

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 met	hods
Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	: 080111*
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	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)	NVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)	NVIRONMENTALLY 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.

Additional information

ADR/RID	 This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <u>Tunnel code</u> (-)
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	 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.

SECTION 14: Transport information

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO

: Not relevant/applicable due to nature of the product.

instruments

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 SEALER 1453-02		≥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 applic	able.		
Ozone depleting substand Not listed.	<u>ces (1005/2009</u>	<u>)/EU)</u>		
Prior Informed Consent (F Not listed.	<u>PIC) (649/2012</u>	<u>(EU)</u>		
Persistent Organic Polluta Not listed.	ants			
Seveso Directive				
This product is controlled up	nder the Seves	o Directive.		
Danger criteria				
Category				
Category E2				
E2				
E2				
E2 National regulations	: Not regula	ited.		
E2 National regulations Austria	: Not regula : Permitted.			
E2 <u>National regulations</u> <u>Austria</u> VbF class Limitation of the use of	-			
E2 <u>Austria</u> VbF class Limitation of the use of organic solvents	-			
E2 <u>Austria</u> VbF class Limitation of the use of organic solvents <u>Czech Republic</u>	: Permitted.			
E2 <u>Austria</u> VbF class Limitation of the use of organic solvents <u>Czech Republic</u> Storage code	: Permitted.		evious issue : 29/06/2023	Version : 1.09 21/26

SECTION 15: Regulatory information	
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Danish fire class	1	IV-1
MAL-code	:	0-5
Protection based on MAL	÷	Acco

: 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: 0-5

Application: When using scraper or knife, brush, roller etc. for pre- and posttreatments in a spray booth where the operator is outside the spray zone and when working in similar new* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Protective clothing must be worn.

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

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

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

- Gas filter mask and protective clothing must be worn.

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

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

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

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

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

*See Regulations.

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

List of undesirable substances

: Not listed

SECTION 15: Regulatory information

ECTION 15: Regula	itory information	
<u>Finland</u>		
France		
Social Security Code, Articles L 461-1 to L 461-7		RG 84
	2-Butoxyethanol Maleic anhydride	RG 84 RG 66
Reinforced medical surveillance	: Act of July 11, 1977 determining the list of actimedical surveillance: not applicable	vities which require reinforced
<u>Germany</u>		
Storage class (TRGS 510)	: 10	
Hazardous incident ordina	ance	
This product is controlled ur	nder the Germany Hazardous Incident Ordinance.	
Danger criteria		
Category		Reference number
E2		1.3.2
Hazard class for water	: 2	
Technical instruction on air quality control	: ₮ A-Luft Number 5.2.5: 66.7%	
ΑΟΧ	: The product contains organically bound haloge value in waste water.	ens and can contribute to the AOX
<u>Italy</u>		
D.Lgs. 152/06	: Not determined.	
Netherlands		
Water Discharge Policy (ABM)	: A(2) Toxic for aquatic organisms, may have lo environment. Decontamination effort: A	ng-term hazardous effects in aquation
<u>Norway</u>		
Sweden		
Switzerland		
VOC content	: Exempt.	
nternational regulations		
Chemical Weapon Convent	tion List Schedules I, II & III Chemicals	

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

	hat has shanged non providely located 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
Drocodure used to derive	a the electrification according to Degulation (EC) No. 4272/2009 [CLD/CUS]

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
STOT SE 3, H335	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Date of issue/ Date of revision	: 05/10/2023

revision		
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Version	: 1.09	
	UVILUX SEALER 1453-02_HY 0020 CLEAR	

Notice to reader

SECTION 16: Other information

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.

Date of issue/Date of revision: 05/10/2023DateUVILUX SEALER 1453-02 - HY 0020 CLEAR

: 05/10/2023 Date of previous issue