# SAFETY DATA SHEET



Label No :50817

UVILUX 6450-01 - HY 8519 CLEAR

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

#### 1.1 Product identifier

Product name : UVILUX 6450-01 - HY 8519 CLEAR

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use : Paint.

### 1.3 Details of the supplier of the safety data sheet

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

e-mail address of person : Prod-safe@teknos.com

responsible for this SDS

**National contact** 

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

#### 1.4 Emergency telephone number

**National advisory body/Poison Centre** 

Telephone number : In an emergency, call 112

### SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition**: Mixture

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

Skin Irrit. 2, H315 Eye Irrit. 2, H319 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 : Warning

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

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

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.

P261 - Avoid breathing vapour.

P264 - Wash thoroughly after handling.

Response : P391 - Collect spillage.

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### **SECTION 2: Hazards identification**

**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; Methylbenzoylformiat; Fatty acids, C14-18 and

C16-18-unsatd., maleated and Maleic anhydride

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, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: None known.

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

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Fexamethylene 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]
Acrylate resin	-	≥25 - ≤50	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	-	[1]
Methylbenzoylformiat	REACH #: 01-2120101338-67 EC: 239-263-3 CAS: 15206-55-0	≤10	Skin Sens. 1, H317	-	[1]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	<1	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
Fatty acids, C14-18 and C16-18-unsatd., maleated	REACH #: 01-2119976378-19 EC: 288-306-2 CAS: 85711-46-2	<1	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
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)	ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C ≥ 0.001%	[1]

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SECTION 3: Composition/information on ingredients						
		EUH071				
		See Section 16 for the full text of the H statements declared above.				

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

Type

M 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** 

: 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. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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** 

: 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: 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. Get medical attention if adverse health effects persist or are severe. 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. 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 or irritation watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness

Ingestion : No specific data.

### 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.

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

**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.

metal oxide/oxides

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

**Hazards from the** substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is 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

#### 5.3 Advice for firefighters

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

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

### **6.2 Environmental** precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### 6.3 Methods and material for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

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

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### **SECTION 6: Accidental release measures**

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 ingest. Avoid breathing vapour or mist. Avoid release to the environment. 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)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
Maleic anhydride	Regulation 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.
Maleic anhydride	CEIL: 0.8 mg/m³, 8 times per shift, 5 minutes. <b>Limit values (Belgium, 5/2021).</b>
	TWA: 0.0025 ppm 8 hours. Form: vapour and aerosol TWA: 0.01 mg/m³ 8 hours. Form: vapour and aerosol
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.

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Maleic anhydride Ministry of Economy, Labour and Entrepreneurship ELV/

STELV (Croatia, 1/2021). 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.

No exposure limit value known.

Maleic anhydride Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 5/2021). Skin sensitiser.

TWA: 1 mg/m³ 8 hours. TWA: 0.245 ppm 8 hours. STEL: 2 mg/m³ 15 minutes. STEL: 0.49 ppm 15 minutes.

Z-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.

Maleic anhydride Working Environment Authority (Denmark, 6/2022).

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.

Maleic anhydride Occupational exposure limits, Regulation No. 293 (Estonia,

10/2019). 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.

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.

Maleic anhydride Institute of Occupational Health, Ministry of Social Affairs

(Finland, 9/2020).

TWA: 0.1 ppm 8 hours.

TWA: 0.41 mg/m³ 8 hours.

CEIL: 0.2 ppm

Z-Butoxyethanol Ministry of Labor (France, 10/2022). Absorbed through skin.

Notes: Binding regulatory limit values (article R. 4412-149 of

CEIL: 0.81 mg/m<sup>3</sup>

the Labor Code)

TWA: 10 ppm 8 hours. TWA: 49 mg/m³ 8 hours. STEL: 246 mg/m³ 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<sup>3</sup> 15 minutes.

Hexamethylene diacrylate
Maleic anhydride

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

TRGS 900 OEL (Germany, 7/2021). Skin sensitiser. Inhalation

sensitiser.

TWA: 0.081 mg/m³ 8 hours. CEIL: 0.2025 mg/m³ TWA: 0.02 ppm 8 hours.

CEIL: 0.05 ppm

PEAK: 0.081 mg/m³ 15 minutes. PEAK: 0.02 ppm 15 minutes.

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

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Inhalation sensitiser.

TWA: 0.02 ppm 8 hours.

CEIL: 0.05 ml/m<sup>3</sup>

TWA: 0.081 mg/m<sup>3</sup> 8 hours.

CEIL: 0.2 mg/m<sup>3</sup>

PEAK: 0.081 mg/m³, 4 times per shift, 15 minutes. PEAK: 0.02 ppm, 4 times per shift, 15 minutes.

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

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

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.

Maleic anhydride 5/2020. (II. 6.) ITM Decree (Hungary, 2/2020). Skin sensitiser.

Inhalation sensitiser.
TWA: 0.08 mg/m³ 8 hours.
PEAK: 0.08 mg/m³ 15 minutes.

Maleic anhydride Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).

Skin sensitiser.

TWA: 0.4 mg/m<sup>3</sup> 8 hours. TWA: 0.1 ppm 8 hours.

Maleic anhydride NAOSH (Ireland, 5/2021). Skin sensitiser. 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.

No exposure limit value known.

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

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

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

TWA: 1 mg/m<sup>3</sup> 8 hours.

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

No exposure limit value known.

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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.

Z-Butoxyethanol Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin.

OEL, 8-h TWA: 100 mg/m³ 8 hours. STEL,15-min: 246 mg/m³ 15 minutes. OEL, 8-h TWA: 20.4 ppm 8 hours. STEL,15-min: 50 ppm 15 minutes.

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Maleic anhydride FOR-2011-12-06-1358 (Norway, 6/2021). Skin sensitiser.

TWA: 0.2 ppm 8 hours. TWA: 0.8 mg/m³ 8 hours.

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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<sup>3</sup> 8 hours. STEL: 200 mg/m<sup>3</sup> 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<sup>3</sup> 8 hours. STEL: 1 mg/m<sup>3</sup> 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014). 2-Butoxyethanol TWA: 20 ppm 8 hours. Maleic anhydride Portuguese Institute of Quality (Portugal, 11/2014). Skin sensitiser. TWA: 0.01 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction and vapor Maleic anhydride HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 1 mg/m<sup>3</sup> 8 hours. VLA: 0.25 ppm 8 hours. Short term: 3 mg/m<sup>3</sup> 15 minutes. Short term: 0.75 ppm 15 minutes. Maleic anhydride Government regulation SR c. 355/2006 (Slovakia, 9/2020). Skin sensitiser. TWA: 0.41 mg/m<sup>3</sup> 8 hours. TWA: 0.1 ppm 8 hours. 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/m<sup>3</sup> 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, 4/2021). Skin sensitiser. Inhalation sensitiser. TWA: 0.1 ppm 8 hours. TWA: 0.4 mg/m<sup>3</sup> 8 hours. Maleic anhydride Work environment authority Regulation 2018:1 (Sweden, 9/2021). Skin sensitiser. TWA: 0.05 ppm 8 hours. TWA: 0.2 mg/m<sup>3</sup> 8 hours. STEL: 0.1 ppm 15 minutes. STEL: 0.4 mg/m<sup>3</sup> 15 minutes. Maleic anhydride SUVA (Switzerland, 1/2021), Skin sensitiser, TWA: 0.1 ppm 8 hours. Form: vapour and aerosols TWA: 0.4 mg/m<sup>3</sup> 8 hours. Form: vapour and aerosols STEL: 0.1 ppm 15 minutes. Form: vapour and aerosols STEL: 0.4 mg/m<sup>3</sup> 15 minutes. Form: vapour and aerosols EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed 2-Butoxyethanol through skin. STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours. STEL: 246 mg/m<sup>3</sup> 15 minutes. TWA: 123 mg/m<sup>3</sup> 8 hours.

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

TWA: 5.4 mg/m<sup>3</sup> 8 hours. TWA: 1 ppm 8 hours.

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

STEL: 59 mg/m<sup>3</sup> 1 minutes. STEL: 20 ppm 1 minutes.

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2-ethylhexan-1-ol

Acrylic acid

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TWA: 29 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.

Maleic anhydride

EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation sensitiser.

STEL: 3 mg/m³ 15 minutes. TWA: 1 mg/m<sup>3</sup> 8 hours.

### **Biological exposure indices**

Product/ingredient name	Exposure indices
No exposure indices known.	
<b>2</b> -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.	

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procedures

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

### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
examethylene diacrylate	DNEL	Long term Inhalation	7.2 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	1.66 mg/	General	Systemic
	DINEL	Long term Dermai	kg bw/day	population	Systemic
	DNEL	Long term Oral	2.1 mg/kg	General	Systemic
	DINEL	Long term Oral	bw/day	population	Systemic
	DNEL	Long term Dermal	2.77 mg/	Workers	Systemic
	DINCL	Long term Dermai	kg bw/day	VVOIKEIS	Systemic
	DNEL	Long term	24.5 mg/m <sup>3</sup>	Workers	Systemic
	DINCL	Inhalation	24.5 mg/m	WOIKEIS	Systemic
Methylbenzoylformiat	DNEL	Long term Oral	1.67 mg/	General	Systemic
wictry benzeynormat	DIVLL	Long term oral	kg bw/day	population	Cystonic
	DNEL	Long term Dermal	1.67 mg/	General	Systemic
	DIVLL	Long term Dermai	kg bw/day	population	Oysternic
	DNEL	Long term Dermal	3.33 mg/	Workers	Systemic
	DIVLE	Long term berman	kg bw/day	WOIKCIS	Cysternic
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
2 Butoxyetharior	DIVLE	Long term oral	bw/day	population	Cystonio
	DNEL	Short term Oral	26.7 mg/	General	Systemic
	J. V.	Chort torm oral	kg bw/day	population	Cyclonic
	DNEL	Long term	59 mg/m <sup>3</sup>	General	Systemic
	J. V.	Inhalation	oo mg/m	population	Cyclonic
	DNEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation	00 mg/m	Trontoro	Gyotomio
	DNEL	Short term	147 mg/m³	General	Local
		Inhalation		population	
	DNEL	Short term	246 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	426 mg/m <sup>3</sup>	General	Systemic
		Inhalation	3	population	'
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m³		1
Fatty acids, C14-18 and	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
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	Workers	Systemic
			bw/day		
Maleic anhydride	DNEL	Long term	0.081 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Long term	0.081 mg/	Workers	Systemic
		Inhalation	m³		
	DNEL	Short term	0.2 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	0.2 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Long term	0.05 mg/m <sup>3</sup>		Systemic
		Inhalation		population	
	DNEL	Long term Oral	0.06 mg/	General	Systemic
	1	Ī	kg bw/day	population	
			1	l'a'.	1
	DNEL	Long term Inhalation	0.08 mg/m <sup>3</sup>	General population	Local

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#### SECTION 8: Exposure controls/personal protection DNEL Short term Oral 0.1 mg/kg General Systemic bw/day population **DNEL** Short term Dermal 0.1 mg/kg General Systemic bw/dav population 0.1 mg/kg DNEL Long term Dermal General Systemic bw/day population **DNEL** Short term Dermal 0.2 mg/kg Workers Systemic bw/day **DNEL** Long term Dermal 0.2 mg/kg Workers Systemic bw/day

#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

**Appropriate engineering** 

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that evewash 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.

### **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 P Filter type (spray application):

### **Environmental exposure** controls

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

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### 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 : Clear. **Odour** : Slight

: Not available. **Odour threshold** : Not available. Melting point/freezing point Initial boiling point and : Not available.

boiling range

**Flammability** : Not available.

Lower and upper explosion

: Lower: Not applicable. Upper: Not applicable. limit

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

**Auto-ignition temperature** 

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

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

Solubility(ies)

Not available.

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

water

Vapour pressure

	Vapour Pressure at 20°C			Va	our pressui	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Hexamethylene diacrylate	0.00045	0.00006	EU A.4			

**Relative density** : Not available. : 1.1 g/cm<sup>3</sup> **Density** : Not available. Vapour density **Explosive properties** : Not available. **Oxidising properties** : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

### SECTION 10: Stability and reactivity

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

10.2 Chemical stability : The product is stable.

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

10.4 Conditions to avoid : No specific data.

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

**10.5 Incompatible materials**: No specific data.

10.6 Hazardous decomposition products

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

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

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

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene diacrylate Maleic anhydride	LD50 Oral LD50 Dermal LD50 Oral	Rat Rabbit Rat	5 g/kg 2620 mg/kg 400 mg/kg	- - -

Conclusion/Summary

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

### **Acute toxicity estimates**

Route	ATE value
Mhalation (vapours)	553.33 mg/l

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
⊮examethylene diacrylate	Skin - Severe irritant	Rabbit	-	24 hours 500	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	mg 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** 

**Sensitisation** 

Conclusion/Summary

: May cause an allergic skin reaction.

Causes skin irritation.

**Mutagenicity** 

**Conclusion/Summary** 

Carcinogenicity

**Conclusion/Summary** 

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

: 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)

Not available.

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

Product/ingredient name	Category	Route of exposure	Target organs
Maleic anhydride	Category 1	inhalation	respiratory system

### **Aspiration hazard**

Not available.

Information on likely routes

: Not available.

of exposure

Potential acute health effects

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

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### SECTION 11: Toxicological information

: No known significant effects or critical hazards. Inhalation

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

: No known significant effects or critical hazards. Ingestion

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

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

> pain or irritation watering redness

Inhalation : No specific data.

Skin contact Adverse symptoms may include the following:

redness

Ingestion : No specific data.

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

Short term exposure

: Not available. **Potential immediate** 

effects

**Potential delayed effects** : Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

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

to very low levels.

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

#### 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>⊮</b> examethylene 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	72 hours
		subspicatus	
	NOEC 0.14 mg/l	Daphnia - Daphnia magna	21 days
	NOEC 0.072 mg/l	Fish - Oryzias latipes	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
Maleic anhydride	Acute LC50 230000 µg/l Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours

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

**Conclusion/Summary** 

: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

**Conclusion/Summary** 

: This product has not been tested for biodegradation.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>⊮</b> examethylene diacrylate	2.81	-	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**

: 080111\*

#### 13.1 Waste treatment methods

### **Product**

**Methods of disposal** 

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

#### **Hazardous waste**

**European waste** catalogue (EWC)

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

# <u>Packaging</u>

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.

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### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)			
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.

### **Additional information**

ADR/RID

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

### Tunnel code (-)

**ADN** 

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

**IMDG** 

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

**IATA** 

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

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.

### 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.

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

P	roduct/ingredient name	%	Designation [Usage]
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### **SECTION 15: Regulatory information**

Labelling

**Other EU regulations** 

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Air

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Water

**Explosive precursors** : Not applicable. Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

This product is controlled under the Seveso Directive.

**Danger criteria** 

**Category** 

E1

#### **National regulations**

**Austria** 

**VbF** class : Not regulated. Limitation of the use of : Permitted.

organic solvents

**Czech Republic** 

Storage code : IV

**Denmark** 

**Danish fire class** : IV-1 Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
Propan-2-ol	Listed	-

**MAL-code** : 1-5

**Protection based on MAL** 

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

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

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

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### SECTION 15: Regulatory information

MAL-code: 1-5

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. 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.

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.

- Gas filter mask and 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.

- Air-supplied half mask, protective clothing and eye protection 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

**Finland France** 

**Social Security Code**, Articles L 461-1 to L 461-7 : 2-Butoxyethanol Maleic anhydride

**RG 84 RG 66** 

**Reinforced medical** surveillance

: Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

**Germany** 

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

This product is controlled under the Germany Hazardous Incident Ordinance.

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### SECTION 15: Regulatory information

#### **Danger criteria**

Category	Reference number
E1	1.3.1

**Hazard class for water** 

**Technical instruction on** 

air quality control

: TA-Luft Number 5.2.5: 83.6%

: 2

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

value in waste water.

Italy

D.Lgs. 152/06 : Not determined.

**Netherlands** 

**Water Discharge Policy** 

(ABM)

: A(1) Highly toxic for aquatic organisms, may have long-term hazardous effects in

aquatic environment. Decontamination effort: A

**Norway** Sweden

**Switzerland** 

**VOC** content : Exempt.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

15.2 Chemical safety

assessment

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

required.

### 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]

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

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 2, H411	Calculation method

### **Full text of abbreviated H statements**

<b>⊮</b> 302	Harmful if swallowed.
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.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic 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 Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
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
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1

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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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