

# Permabond UV639

## Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

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

#### 1.1. Product identifier

 Product name **Permabond UV639**

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

 Intended use **Adhesive**

Identified Uses	Industrial	Professional	Consumer
Use	✓	✓	-

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

Name	<b>Permabond Engineering Adhesives</b>
Full address	<b>Niederkasseler Lohweg 18</b>
District and Country	<b>40547 Düsseldorf Germany</b>
Tel.	<b>+44 (0)1962 711 661</b>

e-mail address of the competent person responsible for the Safety Data Sheet	<b>info.europe@permabond.com</b>
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Supplier:	<b>Permabond Engineering Adhesives Ltd Wessex Way, Colden Common, Winchester, Hampshire SO21 1WP, UK tel: +44 (0)1962 711 661 mail: info.europe@permabond.com</b>
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#### 1.4. Emergency telephone number

For urgent inquiries refer to	<b>+44 (0)1962 711 661 ( 8.00 am-5.00 pm Mon-Fri)</b>
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**CHEMTREC UK: +(44)-870-8200418**  
**CHEMTREC Ireland: +(353)-19014670**  
**CHEMTREC Australia: +(61)-290372994**  
**CHEMTREC New Zealand: +(64)-98010034**

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

##### Hazard classification and indication:

Reproductive toxicity, category 1B	H360Df	May damage the unborn child. Suspected of damaging fertility.
Acute toxicity, category 4	H302	Harmful if swallowed.
Skin corrosion, category 1C	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

**SECTION 2. Hazards identification ... / >>**

**2.2. Label elements**

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:

- H360Df** May damage the unborn child. Suspected of damaging fertility.
- H302** Harmful if swallowed.
- H314** Causes severe skin burns and eye damage.
- H317** May cause an allergic skin reaction.
- H411** Toxic to aquatic life with long lasting effects.
- EUH071** Corrosive to the respiratory tract.

Precautionary statements:

- P202** Do not handle until all safety precautions have been read and understood.
- P273** Avoid release to the environment.
- P280** Wear protective gloves / protective clothing / eye protection / face protection.
- P301+P330+P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P302+P352** IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Contains:** TETRAHYDROFURFURYL ACRYLATE  
N,N-DIMETHYLACRYLAMIDE  
2-HYDROXYETHYL METHACRYLATE  
ISOBORNYL ACRYLATE  
ETHYL PHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINATE

**2.3. Other hazards**

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

**SECTION 3. Composition/information on ingredients**

**3.2. Mixtures**

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>N,N-DIMETHYLACRYLAMIDE</b>		
INDEX	$14 \leq x < 30$	<b>Acute Tox. 3 H301, Acute Tox. 3 H311, Eye Dam. 1 H318, Skin Sens. 1B H317</b>
EC 220-237-5		<b>LD50 Oral: 280 mg/kg, LD50 Dermal: 720 mg/kg</b>
CAS 2680-03-7		
REACH Reg. 01-2119971262-39-XXXX		
<b>ISOBORNYL ACRYLATE</b>		
INDEX	$10 \leq x < 25$	<b>Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1</b>
EC 227-561-6		
CAS 5888-33-5		
REACH Reg. 01-2119957862-25-XXXX		

## Permabond UV639

### SECTION 3. Composition/information on ingredients ... / >>

#### TETRAHYDROFURFURYL ACRYLATE

INDEX 10 ≤ x < 25

Repr. 1B H360Df, Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318,  
Skin Sens. 1B H317, Aquatic Chronic 2 H411, EUH071  
LD50 Oral: 928 mg/kg

EC 219-268-7

CAS 2399-48-6

REACH Reg. 01-2120738396-46-xxxx

#### 2-HYDROXYETHYL METHACRYLATE

INDEX 607-124-00-X 10 ≤ x < 30

Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 212-782-2

CAS 868-77-9

REACH Reg. 01-2119490169-29-XXXX

#### ETHYL PHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINATE

INDEX 2,5 ≤ x < 5

Skin Sens. 1B H317, Aquatic Chronic 2 H411

EC 282-810-6

CAS 84434-11-7

REACH Reg. 01-2119987994-10-XXXX

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### SECTION 4. First aid measures

#### 4.1. Description of first aid measures

SKIN: Wash skin thoroughly with soap and water. If symptoms occur, seek medical attention. EYES: Be sure to remove any contact lenses before rinsing eyes. Promptly rinse eyes thoroughly with water while holding eyelids open. Continue rinsing for at least 15 minutes. Seek medical attention if discomfort persists. INGESTION: Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Seek medical attention. INHALING: Move exposed person to fresh air. Seek medical attention if symptoms are severe or persistent.

Rescuer protection

Information not available

#### 4.2. Most important symptoms and effects, both acute and delayed

Contact with the skin: skin irritation. Mild dermatitis, allergic rash.  
Contact with eyes: irritating and can cause redness and pain.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Note for the doctor no specific recommendation. Symptomatic treatment.

Means to have available in the workplace for specific and immediate treatment

Information not available

### SECTION 5. Firefighting measures

#### 5.1. Extinguishing media

##### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

##### UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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

##### HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE

Avoid breathing combustion products, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), and nitric oxides (NO<sub>x</sub>).

#### 5.3. Advice for firefighters

##### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

##### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with

self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 6.1C

### 7.3. Specific end use(s)

Adhesive

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory references:

NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. 10. april 2024 kl. 13.55
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**SECTION 8. Exposure controls/personal protection ... / >>**

**2-HYDROXYETHYL METHACRYLATE**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	NOR	11	2	11	2	

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,482	mg/l
Normal value in marine water	0,0482	mg/l
Normal value for fresh water sediment	3,79	mg/kg
Normal value for marine water sediment	3,79	mg/kg
Normal value for fresh water, intermittent release	1	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,476	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0.83 mg/kg/d				0.83 mg/kg/d
Inhalation				2.9 mg/m3				4.9 mg/m3
Skin				0.83 mg/kg/d				1.3 mg/kg/d

**ISOBORNYL ACRYLATE**

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,00092	mg/l
Normal value in marine water	0,00009	mg/l
	2	
Normal value for fresh water sediment	0,145	mg/kg
Normal value for marine water sediment	0,0145	mg/kg
Normal value of STP microorganisms	2	mg/l
Normal value for the terrestrial compartment	0,0285	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0.83 mg/kg bw/d				
Skin				0.83 mg/kg bw/d				1.39 mg/kg bw/d

**N,N-DIMETHYLACRYLAMIDE**

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,12	mg/l
Normal value in marine water	0,012	mg/l
Normal value for fresh water sediment	0,509	mg/kg
Normal value for marine water sediment	0,051	mg/kg
Normal value of STP microorganisms	18	mg/l
Normal value for the terrestrial compartment	0,031	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,0147 mg/kg/d				
Inhalation				0,051 mg/m3				0,207 mg/m3
Skin				0,179 mg/kg/d				0,357 mg/kg/d

**SECTION 8. Exposure controls/personal protection ... / >>**

**TETRAHYDROFURFURYL ACRYLATE**

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	392	mg/l
Normal value in marine water	0,00039	mg/l
	2	
Normal value for fresh water sediment	206	mg/kg/d
Normal value for marine water sediment	21	mg/kg/d
Normal value of STP microorganisms	2637	mg/l
Normal value for the terrestrial compartment	18	mg/kg/d

**ETHYL PHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINATE**

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	1	mg/l
Normal value in marine water	0,0001	mg/l
Normal value for fresh water sediment	0,24	mg/kg/d
Normal value for marine water sediment	0,024	mg/kg/d
Normal value for water, intermittent release	0,0353	mg/l
Normal value for the terrestrial compartment	0,047	mg/kg/d

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers		Effects on workers					
	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation								5,88 mg/m3
Skin								1,7 mg/kg bw/d

**Legend:**

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.  
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

**8.2. Exposure controls**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

**HAND PROTECTION**

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

**SKIN PROTECTION**

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

**EYE PROTECTION**

Wear airtight protective goggles (see standard EN ISO 16321).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

**RESPIRATORY PROTECTION**

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

### SECTION 9. Physical and chemical properties

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

Properties	Value	Information
Appearance	liquid	
Colour	colourless	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 100 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	Reason for missing data: substance/mixture is non-soluble (in water)
Kinematic viscosity	not available	
Dynamic viscosity	~ 1950 mPa.s	Temperature: 25 °C
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1	
Relative vapour density	not available	
Particle characteristics	not applicable	

#### 9.2. Other information

##### 9.2.1. Information with regard to physical hazard classes

Information not available

##### 9.2.2. Other safety characteristics

Information not available

### SECTION 10. Stability and reactivity

#### 10.1. Reactivity

The following materials may react with the product: Strong oxidizing agents, Reducing agents, strong acids and bases.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

Stable under normal conditions of storage and use.

Protect from direct sunlight.

Avoid contact with acids and oxidizing agents.

#### 10.5. Incompatible materials

See the reactivity section.

#### 10.6. Hazardous decomposition products

By thermal decomposition, carbon monoxide, carbon dioxide and ed

other unidentified organic compounds.

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.  
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

#### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

Information not available

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

Information not available

#### Interactive effects

Information not available

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	1141,65 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

Corrosive to the respiratory tract.

#### N,N-DIMETHYLACRYLAMIDE

LD50 (Dermal):	720 mg/kg
LD50 (Oral):	280 mg/kg

#### ISOBORNYL ACRYLATE

LD50 (Dermal):	> 3000 mg/kg
LD50 (Oral):	4350 mg/kg

#### TETRAHYDROFURFURYL ACRYLATE

LD50 (Oral):	928 mg/kg
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#### 2-HYDROXYETHYL METHACRYLATE

LD50 (Dermal):	> 5000 mg/kg
LD50 (Oral):	> 5000 mg/kg

#### ETHYL PHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINATE

LD50 (Dermal):	> 2000 mg/kg
LD50 (Oral):	> 5000 mg/kg

#### SKIN CORROSION / IRRITATION

Corrosive for the skin

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

#### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

**SECTION 11. Toxicological information ... / >>**

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

May damage the unborn child - Suspected of damaging fertility

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

**SECTION 12. Ecological information**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it has negative effects on the aquatic environment.

**12.1. Toxicity**

**N,N-DIMETHYLACRYLAMIDE**

LC50 - for Fish	> 120 mg/l/96h
EC50 - for Crustacea	> 120 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 400 mg/l/72h

**ISOBORNYL ACRYLATE**

LC50 - for Fish	0,704 mg/l/96h
EC50 - for Algae / Aquatic Plants	1,98 mg/l/72h
Chronic NOEC for Fish	0,431 mg/l
Chronic NOEC for Crustacea	0,092 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,405 mg/l

**TETRAHYDROFURFURYL ACRYLATE**

LC50 - for Fish	7,32 mg/l/96h
EC50 - for Crustacea	37,7 mg/l/48h
EC50 - for Algae / Aquatic Plants	3,92 mg/l/72h

**2-HYDROXYETHYL METHACRYLATE**

LC50 - for Fish	> 100 mg/l/96h
EC50 - for Crustacea	380 mg/l/48h
EC50 - for Algae / Aquatic Plants	836 mg/l/72h

**ETHYL PHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINATE**

LC50 - for Fish	1,89 mg/l/96h
EC50 - for Crustacea	2,26 mg/l/48h
EC50 - for Algae / Aquatic Plants	1,01 mg/l/72h
Chronic NOEC for Fish	> 1,29 mg/l

**12.2. Persistence and degradability**

**N,N-DIMETHYLACRYLAMIDE**

NOT rapidly degradable

**Permabond UV639****SECTION 12. Ecological information ... / >>**

ISOBORNYL ACRYLATE  
NOT rapidly degradable

TETRAHYDROFURFURYL ACRYLATE  
NOT rapidly degradable

2-HYDROXYETHYL METHACRYLATE  
Rapidly degradable

ETHYL PHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINATE  
NOT rapidly degradable

**12.3. Bioaccumulative potential**

Information not available

**12.4. Mobility in soil**

ETHYL PHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINATE  
Partition coefficient: soil/water 3,37

**12.5. Results of PBT and vPvB assessment**

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

**12.6. Endocrine disrupting properties**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

**12.7. Other adverse effects**

Information not available

**SECTION 13. Disposal considerations****13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

08 04 09\* stickers and sealed sealing, containing organic solvents or other dangerous substances

**SECTION 14. Transport information****14.1. UN number or ID number**

ADR / RID, IMDG, IATA: UN 1760

**14.2. UN proper shipping name**

ADR / RID: CORROSIVE LIQUID, N.O.S. (TETRAHYDROFURFURYL ACRYLATE)  
IMDG: CORROSIVE LIQUID, N.O.S. (TETRAHYDROFURFURYL ACRYLATE)  
IATA: CORROSIVE LIQUID, N.O.S. (TETRAHYDROFURFURYL ACRYLATE)

**SECTION 14. Transport information** ... / >>

**14.3. Transport hazard class(es)**

ADR / RID: Class: 8 Label: 8



IMDG: Class: 8 Label: 8



IATA: Class: 8 Label: 8



**14.4. Packing group**

ADR / RID, IMDG, IATA: III

**14.5. Environmental hazards**

ADR / RID: Environmentally Hazardous



IMDG: Marine Pollutant



IATA: Environmentally Hazardous



For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

**14.6. Special precautions for user**

ADR / RID:	HIN - Kemler: 80 Special provision: 274	Limited Quantities: 5 L	Tunnel restriction code: (E)
IMDG:	EMS: F-A, S-B	Limited Quantities: 5 L	
IATA:	Cargo: Passengers: Special provision:	Maximum quantity: 60 L Maximum quantity: 5 L A3, A803	Packaging instructions: 856 Packaging instructions: 852

**14.7. Maritime transport in bulk according to IMO instruments**

Information not relevant

**SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EU: E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

<u>Product</u>	
Point	3
<u>Contained substance</u>	
Point	75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors  
not applicable

Substances in Candidate List (Art. 59 REACH)  
On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)  
None

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### SECTION 15. Regulatory information ... / >>

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 3: Severe hazard to waters

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Repr. 1B</b>	Reproductive toxicity, category 1B
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1C</b>	Skin corrosion, category 1C
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Skin Sens. 1A</b>	Skin sensitization, category 1A
<b>Skin Sens. 1B</b>	Skin sensitization, category 1B
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>H360Df</b>	May damage the unborn child. Suspected of damaging fertility.
<b>H301</b>	Toxic if swallowed.
<b>H311</b>	Toxic in contact with skin.
<b>H302</b>	Harmful if swallowed.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>EUH071</b>	Corrosive to the respiratory tract.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%

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### SECTION 16. Other information ... / >>

- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

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2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
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22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
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- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in

**SECTION 16. Other information** ... / >>

Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

02 / 03.