Derma ala ara d'
Permapond
Engineering Adhesives

Revision nr.2 Dated 26/09/2023 Printed on 26/09/2023 Page n. 1 / 12 Replaced revision:1 (Dated 20/02/2023) ΕN

Permabond UV6361

Safety Data Sheet

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

SECTION 1. Identification of the subs	tance/mixture and o	of the company/undertal	king
1.1. Product identifier			
Product name	Permabond UV6361		
1.2. Relevant identified uses of the substance or mi	xture and uses advised ag	ainst	
Intended use	Adhesive		
Identified Uses	Industrial	Professional	Consumer
Use	\checkmark	\checkmark	-
1.3. Details of the supplier of the safety data sheet			
Name	Permabond Engineering	Adhesives	
Full address	Niederkasseler Lohweg 1	В	
District and Country	40547 Düsseldorf		
	Germany	744.004	
e-mail address of the competent person	Tel. +44 (0)1962	/11 661	
responsible for the Safety Data Sheet	info.europe@permabond.	com	
Supplier:	Permabond Engineering	Adhesives Ltd	
	Wessex Way, Colden Con	nmon,	
	Winchester, Hampshire S	021 1WP, UK	
	tel: +44 (0)1962 711 661		
	mail: info.europe@perma	bond.com	
1.4. Emergency telephone number			
For urgent inquiries refer to	+44 (0)1962 711 661 (8.00	am-5.00 pm Mon-Fri)	
	CHEMTREC UK: +(44)-870	-8200418	
	CHEMTREC Ireland: +(353	3)-19014670	
	CHEMTREC Australia: +(6		
	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 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H411	Toxic to aquatic life with long lasting effects.
toxicity, category 2		



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SECTION 2. Hazards identification ... / >>

2.2. Label elements

Signal words:

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

Hazard pictograms:

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.
	Restricted to professional users.
Precautionary statements:	
P273	Avoid release to the environment.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P301+P310	In case of ingestion: contact an anti -center center or a doctor immediately.
P302+P352	In case of contact with the skin: wash abundantly with 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.
P308+P313	IF exposed or concerned: Get medical advice / attention.
Contains:	TETRAHYDROFURFURYL ACRYLATE
	TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYLATE

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 $\ge 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:			
Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
TETRAHYDR	OFURFURYL ACRY	LATE	
INDEX		$30 \le x \le 46,4$	Repr. 1B H360Df, Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1B H317, Aquatic Chronic 2 H411, EUH071
EC	219-268-7		LD50 Oral: 928 mg/kg
CAS	2399-48-6		
REACH Reg.	01-2120738396-46	6-xxxx	
ISOBORNYL	ACRYLATE		
INDEX		10 ≤ x < 20	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC	227-561-6		
CAS	5888-33-5		
REACH Reg.	01-2119957862-25	5-XXXX	



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SECTION 3. Composition/information on ingredients/>>

ETHYL PHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINATE INDEX $2.5 \le x \le 5$ Skin Sens. 1B H317, Aquatic Chronic 2 H411 EC 282-810-6 CAS 84434-11-7 01-2119987994-10-XXXX REACH Req. TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYLATE INDEX $0,1 \le x < 1$ Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 2 H411 EC 254-843-6 CAS 40220-08-4 REACH Reg. 01-2120741502-64-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

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Skin: Wash the skin thoroughly with soap and water. If symptoms arise, request medical assistance
Eyes: Make sure you have removed any contact lenses before rinsing your eyes. Wash Readyly and abundantly the eyes with water keeping the eyelids open.
Continue to rinse for at least 15 minutes. Consult a doctor if the discomfort continues.
Ingestion: rinse the mouth with water thoroughly. Make a abundant quantity of water drink.
Do not cause vomiting. Consult a doctor.
Inhalation: move the subject exposed in the open air. Consult a doctor in case of serious symptoms or persistent.

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.

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 (CO2), and nitric oxides (NOx).

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



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SECTION 6. Accidental release measures/>>

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.

6.1C

Storage class TRGS 510 (Germany):

7.3. Specific end use(s)

Adhesive

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

			ISOBORN	IYL ACRYLATE				
edicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,00092	mg/l	
Normal value in marin	ne water					0,00009	mg/l	
						2		
Normal value for fres	h water sedi	ment				0,145	mg/kg	
Normal value for mar	ine water se	diment				0,0145	mg/kg	
Normal value of STP	microorgani	sms				2	mg/l	
Normal value for the	terrestrial co	mpartment				0,0285	mg/kg	
alth - Derived no-eff	ect level - D	NEL / DMEL					0 0	
	Effects or	n consumers			Effects on v	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				0.83				-
				mg/kg bw/d				
Skin				0.83				1.39
				mg/kg bw/d				mg/kg
				0				bw/d



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SECTION 8. Exposure controls/personal protection 1>>

TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYLATE

centration	- PNEC						
water					0,00943	mg/l	
ne water					0,00094	mg/l	
n water sedi	ment				0,62	mg/kg/d	
ne water se	diment				0,062	mg/kg/d	
er, intermitte	nt release				0,0943	mg/l	
microorgani	sms				10	mg/l	
errestrial co	mpartment				0,118	mg/kg/d	
ect level - D	NEL / DMEL						
Effects or	n consumers			Effects on w	vorkers		
Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
local	systemic	local	systemic	local	systemic	local	systemic
			0.08				
			mg/kg/d				
			0.29				1.65
			mg/m3				mg/m3
			0.83				2.3
			mg/kg/d				mg/kg/d
	water ne water sedi ne water sedi ne water se er, intermitte microorgani errestrial co ect level - D Effects on Acute	e water n water sediment ne water sediment er, intermittent release microorganisms errestrial compartment ect level - DNEL / DMEL Effects on consumers Acute Acute	water he water he water sediment he water sediment he water sediment her, intermittent release microorganisms errestrial compartment bet level - DNEL / DMEL Effects on consumers Acute Acute Chronic	water he water he water sediment ne water sediment he water sediment he water sediment her, intermittent release microorganisms errestrial compartment ect level - DNEL / DMEL Effects on consumers Acute Acute Chronic Chronic local systemic local systemic 0.08 mg/kg/d 0.29 mg/m3 0.83	water le water le water sediment ne water sediment ler, intermittent release microorganisms errestrial compartment ect level - DNEL / DMEL Effects on consumers Acute Acute Chronic Chronic Acute local systemic local systemic local 0.08 mg/kg/d 0.29 mg/m3 0.83	water of 0,00943 ne water sediment 0,62 ne water sediment 0,62 ne water sediment 0,062 er, intermittent release 0,0943 microorganisms 10 errestrial compartment 0,118 ert level - DNEL / DMEL Effects on consumers Effects on workers Acute Acute Chronic Chronic Acute Acute local systemic local systemic local systemic 0.08 mg/kg/d 0.29 mg/m3 0.83	water on the water sediment 0,00943 mg/l ne water sediment 0,62 mg/kg/d ne water sediment 0,062 mg/kg/d er, intermittent release 0,0943 mg/l microorganisms 10 mg/l errestrial compartment 0,118 mg/kg/d ect level - DNEL / DMEL Effects on consumers Effects on workers Acute Acute Chronic Chronic Acute Acute Chronic local systemic local systemic local systemic local 0.08 mg/kg/d 0.29 mg/m3 0.83

TETRAHYDROFURFURYL ACRYLATE

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 PHEN	YL(2,4,6-TRIME	THYLBENZO	YL)PHOSPHI	NATE		
Predicted no-effect con	ncentration	- PNEC						
Normal value in fresh	n water					1	mg/l	
Normal value in mari	ne water					0,0001	mg/l	
Normal value for fres	h water sedi	ment				0,24	mg/kg/d	
Normal value for mar	ine water se	diment				0,024	mg/kg/d	
Normal value for wat	er, intermitte	nt release				0,0353	mg/l	
Normal value for the	terrestrial co	mpartment				0,047	mg/kg/d	
Health - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on w	vorkers		
Route of exposure	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

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, failure time and permeability.

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.



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SECTION 8. Exposure controls/personal protection/>

Wear airtight protective goggles (see standard EN 166).

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

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, 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). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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. The protection provided by masks is in any case limited.

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 missi	ng data:subs	stance/mixture i
			non-soluble	(in	water)
Kinematic viscosity		not available			
Dynamic viscosity		~ 25000 mPa.s	Temperature: 23	°C	
Solubility		not available			
Partition coefficient: n-octanol/water		not available			
Vapour pressure		not available			
Density and/or relative density		1,1			
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

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

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

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SECTION 10. Stability and reactivity ... / >>

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Strong reducing and oxidizing agents.

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: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:

Corrosive to the respiratory tract.

ISOBORNYL ACRYLATE	
LD50 (Dermal):	
LD50 (Oral):	

> 3000 mg/kg 4350 mg/kg

928 mg/kg

2000,00 mg/kg

Not classified (no significant component)

Not classified (no significant component)

TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYLATE LD50 (Oral): 2000 mg/kg

TETRAHYDROFURFURYL ACRYLATE LD50 (Oral):

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



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SECTION 11. Toxicological information ... / >>

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

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 have negative effects on acquatic environment.

12.1. Toxicity

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
TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYI LC50 - for Fish	_ATE 9,43 mg/l/96h
EC50 - for Crustacea	158,3 mg/l/48h
EC50 - for Algae / Aquatic Plants	25,7 mg/l/72h
TETRAHYDROFURFURYL ACRYLATE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	7,32 mg/l/96h 37,7 mg/l/48h 3,92 mg/l/72h
ETHYL PHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPH LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish	IINATE 1,89 mg/l/96h 2,26 mg/l/48h 1,01 mg/l/72h > 1,29 mg/l

12.2. Persistence and degradability

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SECTION 12. Ecological information .../>>

ISOBORNYL ACRYLATE NOT rapidly degradable

TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYLATE NOT rapidly degradable

TETRAHYDROFURFURYL ACRYLATE NOT rapidly degradable

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

12.3. Bioaccumulative potential

TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYLATE Partition coefficient: n-octanol/water 1,8

12.4. Mobility in soil

TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYLATE Partition coefficient: soil/water 2,79

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. 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: 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)

@EPY 11.5.2 - SDS 1004.14

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Permabond Engineering Adhesives

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SECTION 14. Transport information ... / >>

14.3. Transport hazard class(es)

ADR / RID:	Class: 8	Label: 8	8
IMDG:	Class: 8	Label: 8	8
IATA:	Class: 8	Label: 8	A CONTRACTOR

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

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

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:

3

E2

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

Point

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

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

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SECTION 15. Regulatory information ... / >>

None

Substances subject to the Rotterdam Convention:

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:

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%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation



Permabond UV6361

SECTION 16. Other information ... / >>

- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- 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 as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 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)
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- 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
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- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
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- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
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- 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.

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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 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: 01 / 02 / 03 / 08 / 11 / 12 / 16.