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Permabond TA4611B

# **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 su	ubstance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	Permabond TA4611B
1.2. Relevant identified uses of the substance of	or mixture and uses advised against
Intended use	Adhesive
1.3. Details of the supplier of the safety data sh	neet
Name Full address District and Country	Permabond Engineering Adhesives Niederkasseler Lohweg 18 40547 Düsseldorf Germany Tel. +44 (0)1962 711 661
e-mail address of the competent person responsible for the Safety Data Sheet	info.europe@permabond.com
Supplier:	Permabond Engineering Adhesives Ltd Wessex Way, Colden Common, Winchester, Hampshire SO21 1WP, UK tel: +44 (0)1962 711 661 mail: info.europe@permabond.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)-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:		
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure,	H335	May cause respiratory irritation.
category 3		
Skin sensitization, category 1	H317	May cause an allergic skin reaction.

#### 2.2. Label elements

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

Hazard pictograms:





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## SECTION 2. Hazards identification ... / >>

Signal words:	Danger
Hazard statements:	
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
Precautionary statements:	
P280	Wear protective gloves / protective clothing / eye protection / face protection.
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:	TRIETHYLBORANEDIAMINOPROPANE COMPLEX BENZYL METHACRYLATE 2-ETHYLHEXYL METHACRYLATE

### 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)
BENZYL MET INDEX		$30 \le x \le 60$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1 H317
EC CAS	219-674-4 2495-37-6		
	2495-37-6 01-2119960155-39		
0			
INDEX		5≤x< 10	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1B H317, Aquatic Chronic 3 H412, EUH208
EC	211-708-6		
CAS	688-84-6		
0	01-2119490166-35		
	RANEDIAMINOPR		A suite Tass A USAG Olde Ones AA USAA Tas Dave A USAG Olde Ones AD
INDEX		3≤x< 5	Acute Tox. 4 H312, Skin Corr. 1A H314, Eye Dam. 1 H318, Skin Sens. 1B H317
EC	604-654-3		STA Dermal: 1100 mg/kg
CAS	148861-07-8		
REACH Reg.			
	MINOETHYL METH		
INDEX		0,1 ≤ x < 1	Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317
EC	220-688-8		STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg
CAS	2867-47-2		
0	01-2119474677-22	-XXXX	
PROPANE-1,3	B-DIAMINE		
INDEX		0,1 ≤ x < 1	Flam. Liq. 3 H226, Acute Tox. 2 H310, Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318, Resp. Sens. 1 H334, Skin Sens. 1B H317
EC	203-702-7		LD50 Oral: 311 mg/kg, LD50 Dermal: 178 mg/kg
CAS	109-76-2		
REACH Reg.	01-2119977065-31	-XXXX	

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



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# **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

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 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.



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#### SECTION 6. Accidental release measures ..../>>

#### 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.

#### 7.3. Specific end use(s)

Adhesive

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

### 8.1. Control parameters

2-ETHYLHEXYL METHACRYLA	ATE	
Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,003 mg/l	
Normal value in marine water	0 mg/l	
Normal value for fresh water sediment	2,24 mg/kg	
Normal value for marine water sediment	0,224 mg/kg	
Normal value of STP microorganisms	10 mg/l	
Normal value for the terrestrial compartment	0,446 mg/kg	

			BENZYL N	IETHACRYLAT	E			
edicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,01	mg/l	
Normal value in mari	ne water					0,001	mg/l	
Normal value for fres	h water sed	iment				0,423	mg/kg/d	
Normal value for mar	ine water se	ediment				0,042	mg/kg/d	
Normal value of STP	microorgan	isms				1,33	mg/l	
Normal value for the	terrestrial co	ompartment				0,079	mg/kg/d	
ealth - Derived no-eff	ect level - C	DNEL / DMEL						
	Effects o	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
Oral		LOW		4,17				-
				mg/kg bw/d				
Inhalation				7,2				24,2
				mg/m3				mg/m3
Skin	MED	LOW		4,17	MED	LOW		6,94
				mg/kg bw/d				mg/kg
								bw/d



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

		2-DIN	METHYLAMINO		ACRYLATE			
redicted no-effect cor	centration	- PNEC						
Normal value in fresh	water					0,087	mg/l	
Normal value for fresh	n water sedi	ment				0,483	mg/kg	
Normal value of STP	microorgani	sms				210	mg/l	
Normal value for the t	errestrial co	mpartment				0,0454	mg/kg	
lealth - Derived no-effe	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on wo	rkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation				-	321	-	27	27
					mg/m3		mg/m3	mg/m3
Skin							-	41,7
								mg/kg
								bw/d
			PROPAN	IE-1,3-DIAMIN	E			bw/d
redicted no-effect cor	centration	- PNEC	PROPAN	IE-1,3-DIAMIN	E			bw/d
redicted no-effect cor Normal value in fresh		- PNEC	PROPAN	IE-1,3-DIAMIN	E	1	mg/l	bw/d
	water	- PNEC	PROPAN	IE-1,3-DIAMIN	E	-	mg/l	DW/U
Normal value in fresh	water ie water		PROPAN	ie-1,3-diamin	E	1 0,1 5	mg/l	Dw/d
Normal value in fresh Normal value in marir	water ie water i water sedi	ment	PROPAN	ie-1,3-diamin	E	0,1 5	mg/l mg/kg	DW/Q
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari	water ne water n water sedi ne water se	ment diment	PROPAN	ie-1,3-diamin	E	0,1	mg/l mg/kg mg/kg	Dw/d
Normal value in fresh Normal value in marir Normal value for fresh	water ne water n water sedi ne water se microorgani	ment diment sms	PROPAN	ie-1,3-diamin	E	0,1 5 0,5	mg/l mg/kg	DW/Q
Normal value in fresh Normal value in marin Normal value for fresh Normal value for marin Normal value of STP	water ne water n water sedi ne water se microorgani <b>ect level - D</b>	ment diment sms	PROPAN	ie-1,3-diamin	E Effects on wo	0,1 5 0,5 10	mg/l mg/kg mg/kg	Dw/d
Normal value in fresh Normal value in marin Normal value for fresh Normal value for marin Normal value of STP	water ne water n water sedi ne water se microorgani <b>ect level - D</b>	ment diment sms NEL / DMEL	PROPAN	IE-1,3-DIAMIN		0,1 5 0,5 10	mg/l mg/kg mg/kg	Chronic
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value of STP lealth - Derived no-effe	water ne water n water sedi ne water se microorgani ect level - D Effects or	ment diment sms INEL / DMEL n consumers			Effects on wo	0,1 5 0,5 10 rkers	mg/l mg/kg mg/kg mg/l	
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value of STP lealth - Derived no-effe	water ne water n water sedi ne water se microorgani ect level - D Effects or Acute	ment diment sms NEL / DMEL n consumers Acute	Chronic	Chronic	Effects on wo Acute	0,1 5 0,5 10 rkers Acute	mg/l mg/kg mg/kg mg/l Chronic	Chronic
Normal value in fresh Normal value in marin Normal value for fresh Normal value for marin Normal value of STP Iealth - Derived no-effe Route of exposure	water ne water n water sedi ne water se microorgani ect level - D Effects or Acute	ment diment sms NEL / DMEL n consumers Acute	Chronic	Chronic	Effects on wo Acute	0,1 5 0,5 10 rkers Acute	mg/l mg/kg mg/kg mg/l Chronic	Chronic systemic
Normal value in fresh Normal value in marin Normal value for fresh Normal value for marin Normal value of STP Iealth - Derived no-effe Route of exposure	water ne water n water sedi ne water se microorgani ect level - D Effects or Acute	ment diment sms NEL / DMEL n consumers Acute	Chronic	Chronic	Effects on wo Acute	0,1 5 0,5 10 rkers Acute	mg/l mg/kg mg/kg mg/l Chronic	Chronic systemic 3
Normal value in fresh Normal value in marin Normal value for fresh Normal value for marin Normal value of STP Iealth - Derived no-effe Route of exposure Inhalation	water ne water n water sedi ne water se microorgani ect level - D Effects or Acute	ment diment sms NEL / DMEL n consumers Acute	Chronic	Chronic	Effects on wo Acute	0,1 5 0,5 10 rkers Acute	mg/l mg/kg mg/kg mg/l Chronic	Chronic systemic 3 mg/m3

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.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

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.

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# **SECTION 9.** Physical and chemical properties

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

Properties Appearance Colour Odour Melting point / freezing point Initial boiling point Flammability Lower explosive limit Upper explosive limit Flash point Auto-ignition temperature Decomposition temperature pH	Value liquid pale yellow characteristic not available not available
Kinematic viscosity Dynamic viscosity Solubility Partition coefficient: n-octanol/water Vapour pressure Density and/or relative density Relative vapour density Particle characteristics	not available ~ 25000 mPa.s not available not available not available 1 not available not available not applicable

#### Information

Reason for missing data:substance/mixture is non-soluble (in water)

Temperature: 25 °C

## 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.

#### 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

Information not available

#### 10.6. Hazardous decomposition products

Information not available



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<b>SECTION 11. Toxic</b>	ological information
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11.1. Information on hazard classes as defined in Regulation	on (EC) No 1272/2008
Metabolism, toxicokinetics, mechanism of action and other in	formation
Information not available	
Information on likely routes of exposure	
Information not available	
Delayed and immediate effects as well as chronic effects from	n 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:	Not classified (no significant component) Not classified (no significant component) >2000 mg/kg
2-ETHYLHEXYL METHACRYLATE	
LD50 (Dermal): LD50 (Oral):	> 17620 mg/kg > 2000 mg/kg
BENZYL METHACRYLATE LD50 (Oral):	> 5000 mg/kg
2-DIMETHYLAMINOETHYL METHACRYLATE LD50 (Dermal): STA (Dermal): LD50 (Oral):	<ul> <li>&gt; 2000 mg/kg</li> <li>1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP</li> <li>(figure used for calculation of the acute toxicity estimate of the mixture)</li> <li>&gt; 2000 mg/kg</li> </ul>
PROPANE-1,3-DIAMINE LD50 (Dermal): LD50 (Oral):	178 mg/kg 311 mg/kg
TRIETHYLBORANEDIAMINOPROPANE COMPLE STA (Dermal):	X 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
SKIN CORROSION / IRRITATION	
Causes skin irritation	
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	
CARCINOGENICITY	
Does not meet the classification criteria for this hazard class	

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# SECTION 11. Toxicological information ... / >>

## REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

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.

33 mg/l/48h 69,7 mg/l/72h 4,35 mg/l 32 mg/l

# **SECTION 12. Ecological information**

#### 12.1. Toxicity

2-ETHYLHEXYL METHACRYLATE	
LC50 - for Fish	2,78 mg/l/96h
EC50 - for Crustacea	2,18 mg/l/48h
EC50 - for Algae / Aquatic Plants	7,68 mg/l/72h
Chronic NOEC for Crustacea	0,11 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,28 mg/l
2-DIMETHYLAMINOETHYL METHACRYLATE	
LC50 - for Fish	19,1 mg/l/96h

Z-DIWETTTLAWINOETTTLWETTAGKTLA
LC50 - for Fish
EC50 - for Crustacea
EC50 - for Algae / Aquatic Plants
Chronic NOEC for Crustacea
Chronic NOEC for Algae / Aquatic Plants

#### 12.2. Persistence and degradability

2-DIMETHYLAMINOETHYL METHACRYLATE Rapidly degradable

#### 12.3. Bioaccumulative potential

Information not available

#### 12.4. Mobility in soil

Information not available

#### 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



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# **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.

Waste class 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: 3267

## 14.2. UN proper shipping name

ADR / RID:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TRIETHYLBORANEDIAMINOPROPANE COMPLEX)
IMDG:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TRIETHYLBORANEDIAMINOPROPANE COMPLEX)
IATA:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TRIETHYLBORANEDIAMINOPROPANE COMPLEX)

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

ADR / RID:	Class: 8	Label: 8	
IMDG:	Class: 8	Label: 8	No. 10 August 10
IATA:	Class: 8	Label: 8	

#### 14.4. Packing group

ADR / RID, IMDG, IATA:

#### 14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

#### 14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80	Limited Quantities: 1 L	Tunnel restriction code:
	Special provision: -		
IMDG:	EMS: F-A, S-B	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 30 L	Packaging instructions: 8
	Passengers:	Maximum quantity: 1 L	Packaging instructions: 8
	Special provision:	A3, A803	

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

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Information not relevant

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# Permabond TA4611B

SECTION 15. Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Seveso Category - Directive 2012/18/EU: None	
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006	
Product	
Point 3 - 40	
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)	
Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: 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.

# 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:

Flam. Lig. 3	Flammable liquid, category 3
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H226	Flammable liquid and vapour.
H310	Fatal in contact with skin.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains <name of="" sensitising="" substance="">. May produce an allergic reaction.</name>
	5 71 5

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

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
- 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)
- 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)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- 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

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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 11.

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