Dermehand <sup>*</sup>
Permapond
Engineering Adhesives

Revision nr.2 Dated 15/07/2024 Printed on 15/07/2024 Page n. 1 / 13 Replaced revision:1 (Dated 11/10/2023)

Permabond TA4202B

# 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	substance/mix	ture and of the company	y/undertaking
1.1. Product identifier			
Product name	Permabond	TA4202B	
1.2. Relevant identified uses of the substanc	e or mixture and us	es advised against	
Intended use	Adhesive		
Identified Uses	Industrial	Professional	Consumer
Use	$\checkmark$	$\checkmark$	-
1.3. Details of the supplier of the safety data	sheet		
Name Full address District and Country		Engineering Adhesives eler Lohweg 18 Düsseldorf Germany +44 (0)1962 711 661	
e-mail address of the competent person responsible for the Safety Data Sheet	info.europe(	@permabond.com	
Supplier:	Wessex Way Winchester, tel: +44 (0)	Engineering Adhesives Ltd y, Colden Common, Hampshire SO21 1WP, UK 1962 711 661 urope@permabond.com	
1.4. Emergency telephone number			
For urgent inquiries refer to	+44 (0)1962	711 661(8.00 am-5.00 pm Mon	n-Fri)
	CHEMTREC CHEMTREC	UK: +(44)-870-8200418 Ireland: +(353)-19014670 Australia: +(61)-290372994 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:		
Flammable liquid, category 3	H226	Flammable liquid and vapour.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
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.

EN



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# 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:	Warning
Hazard statements:	
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statements:	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
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
P308+P313	do. Continue rinsing. IF exposed or concerned: Get medical advice / attention.
Contains:	METHYLMETHACRYLATE
	2-HYDROXYETHYL 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)
METHYLMET	HACRYLATE		
INDEX		60 ≤ x < 100	Flam. Liq. 2 H225, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1 H317
EC	201-297-1		
CAS	80-62-6		
REACH Reg.	01-2119452498-28	B-XXXX	
2-HYDROXYE	THYL METHACRYL	ATE	
INDEX		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	
<u>_</u> ,,	0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	



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

#### 3,5-DIETHYL-1,2-DIHYDRO-1-PHENYL-2-PROPYLPYRIDINE

EC 252-091-3 CAS 34562-31-7 REACH Reg 01-2120760712-47-XXXX

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INDFX

Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 1 H410 M=1 LD50 Oral: >500 mg/kg

REACH Reg. 01-2120769712-47-XXXX

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

5 < x < 10

# **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. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Consult a doctor if the discomfort continues.

Ingestion: rinse the mouth with water thoroughly. Give plenty of water to drink. Do not cause vomiting. Consult a doctor.

Inhalation: Move the exposed person to fresh air. Consult a doctor in case of serious symptoms or persistent.

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

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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

DANGERS DUE TO EXPOSURE IN THE EVENT OF FIRE

Overpressure can be created in containers exposed to fire with risk of explosion. 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.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

#### 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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

#### 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. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

3

Storage class TRGS 510 (Germany):

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

Adhesive

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

#### 8.1. Control parameters

Regulatory references:

DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2023
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81

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

LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar kīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
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. august 2018 nr. 1255
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)

# 2-HYDROXYETHYL METHACRYLATE

Threshold Limit Va	lue								
Туре	Country	TWA/8h			STEL/15min		Remarks / Observ	ations	
		mg/m3	ppm		mg/m3	ppm			
TLV	NOR	11	2		11	2			
Predicted no-effect	concentra	ation - PNEC							
Normal value in f	resh water						0,482	mg/l	
Normal value in r	narine wate	er					0,0482	mg/l	
Normal value for	fresh water	r sediment					3,79	mg/kg	
Normal value for	marine wat	er sediment					3,79	mg/kg	
Normal value for	fresh water	r, intermittent r	elease				1	mg/l	
Normal value of S							10	mg/l	
Normal value for	the terrestr	ial compartme	nt				0,476	mg/kg	
Health - Derived no	-effect lev	el - DNEL / DI	MEL						
	Effe	cts on consum	iers			Effects	on workers		
Route of exposur	e Acu	te Acute	9	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l syste	mic	local	systemic	local	systemic	local	systemic
Oral					0.83				0.83
					mg/kg/d				mg/kg/d
Inhalation					2.9				4.9
					mg/m3				mg/m3
Skin					0.83				1.3
					mg/kg/d				mg/kg/d

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

ΕN

Threshold Limit	Valuo			METHYLMETHACRYLATE							
	value										
Туре	Country	TWA/8h			STEL/15min		Remark	s / Observa	itions		
		mg/m3	ppm		mg/m3	ppm					
AGW	DEU	210	50		420	100					
TLV	DNK	102	25		204	50					
VLA	ESP	100	50		416	100					
VLEP	FRA	205	50		410	100					
HTP	FIN	42	10		210	50					
AK	HUN	208			415						
VLEP	ITA		50			100					
RV	LVA	10									
TLV	NOR	100	25		400	100					
TGG	NLD	205			410						
NDS/NDSCh	POL	100			300						
TLV	ROU	205	50		410	100					
NGV/KGV	SWE	200	50		400	100					
Predicted no-eff	ect concenti	ation - PNEC									
Normal value	in fresh wate	ſ						0,94	mg/l		
Normal value	in marine wa	er						0,094	mg/l		
Normal value	for fresh wate	er sediment						10,2	mg/kg		
Normal value								10	mg/l		
		trial compartme						1,48	mg/kg		
Health - Derived	no-effect lev	vel - DNEL / DI	MEL								
	Effe	ects on consum	ers			Effects	s on worker	s			
Route of expo	sure Aci	ute Acute	9	Chronic	Chronic	Acute		Acute	Chronic	Chronic	
	loc	al syste	mic	local	systemic	local		systemic	local	systemic	
Oral					8,2						
					mg/kg/d						
Inhalation		208			74,3			416		208	
		mg/m	13		mg/m3			mg/m3		mg/m3	
Skin					8,2			0,0015		13,7	
					mg/kg/d			mg/cm2		mg/kg/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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. EYE PROTECTION

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

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	green	
Odour	pungent	
Melting point / freezing point	not available	
Initial boiling point	100 °C	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	30 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
рН	not available	Reason for missing non-soluble
Kinematic viscosity	not available	
Dynamic viscosity	~ 4000 mPa.s Thixo	Temperature: 23 °
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	28 mmHg	
Density and/or relative density	1	
Relative vapour density	3,46	
Particle characteristics	not applicable	

ng data:substance/mixture is water) (in

°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

The vapours may also form explosive mixtures with the air.

#### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

@EPY 11.7.2 - SDS 1004.14



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# **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: Not classified (no significant component) >2000 mg/kg Not classified (no significant component)

3,5-DIETHYL-1,2-DIHYDRO-1-PHENYL-2-PROPYL	PYRIDINE
LD50 (Dermal):	> 1000 mg/kg
LD50 (Oral):	> 500 mg/kg

2-HYDROXYETHYL METHACRYLATE LD50 (Dermal): LD50 (Oral):

METHYLMETHACRYLATE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

> 5000 mg/kg
> 5000 mg/kg
29,8 mg/l/4h

> 5000 mg/kg

> 5000 mg/kg

#### SKIN CORROSION / IRRITATION

Causes skin irritation

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

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

Does not meet the classification criteria for this hazard class



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

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.

# **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

3,5-DIETHYL-1,2-DIHYDRO-1-PHENYL-2-PROPYLPY	RIDINE
EC50 - for Crustacea	22 mg/l/48h
EC50 - for Algae / Aquatic Plants	40 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	16 mg/l
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
METHYLMETHACRYLATE	
LC50 - for Fish	> 100 mg/l/96h
EC50 - for Crustacea	69 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h
Chronic NOEC for Fish	9,4 mg/l
Chronic NOEC for Crustacea	37 mg/l
Chronic NOEC for Algae / Aquatic Plants	> 110 mg/l

#### 12.2. Persistence and degradability

3,5-DIETHYL-1,2-DIHYDRO-1-PHENYL-2-PROPYLPYRIDINE NOT rapidly degradable

2-HYDROXYETHYL METHACRYLATE Rapidly degradable

METHYLMETHACRYLATE 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%.

ΕN



### SECTION 12. Ecological information ... / >>

#### 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: UN 1993

#### 14.2. UN proper shipping name

ADR / RID:	FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE)
IMDG:	FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE)
IATA:	FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE)

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

ADR / RID:	Class: 3	Label: 3	3
IMDG:	Class: 3	Label: 3	
IATA:	Class: 3	Label: 3	

#### 14.4. Packing group

ADR / RID, IMDG, IATA:

#### 14.5. Environmental hazards

ADR / RID:	NO
IMDG:	not marine pollutant
IATA:	NO

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#### 14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 30 Special provision: 274, 601	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Passengers:	Maximum quantity: 60 L	Packaging instructions: 355
	Special provision:	A3	

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SECTION 14. Transport i	nformation / >>	
14.7. Maritime transport in <b>k</b>	oulk according to IMO instruments	
Information not relevant		
SECTION 15. Regula	atory information	
J		
15.1. Safety, health and env	ironmental regulations/legislation specific for the substance or mix	ture
Seveso Category - Directiv	re 2012/18/EU: P5c-E2	
	product or contained substances pursuant to Annex XVII to EC Regulati	on 1907/2006
Product Point	3 - 40	
Regulation (EU) 2019/1148 not applicable	3 - on the marketing and use of explosives precursors	
Substances in Candidate L On the basis of available d	<u>list (Art. 59 REACH)</u> ata, the product does not contain any SVHC in percentage ≥ than 0,1%.	
Substances subject to auth	norisation (Annex XIV REACH)	
Substances subject to exp None	ortation reporting pursuant to Regulation (EU) 649/2012:	
Substances subject to the None	Rotterdam Convention:	
Substances subject to the None	Stockholm Convention:	
	nemical agent must not undergo health checks, provided that available ris Ith and safety are modest and that the 98/24/EC directive is respected.	k-assessment data prove that the risks
German regulation on the owner WGK 3: Severe hazard to	classification of substances hazardous to water (AwSV, vom 18. April 20 waters	17)
15.2. Chemical safety asses	sment	
A chemical safety assessm	ent has not been performed for the preparation/for the substances indica	ted in section 3.
SECTION 16. Other i	nformation	
Text of hazard (H) indicatio	ons mentioned in section 2-3 of the sheet:	
Flam. Liq. 2 Flam. Liq. 3 Acute Tox 4	Flammable liquid, category 2 Flammable liquid, category 3 Acute toxicity, category 4	

Acute Tox. 4	Acute toxicity, category 4
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
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.



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

- 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
- 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

- 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 (EÚ) 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)
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- 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
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- The Merck Index. 10th Edition
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- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy



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Permabond TA4202B

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

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 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 / 04 / 08 / 12 / 14 / 15 / 16.