Destroop	hom d'
Perma	
	Adhesives

Permabond Engineering Adhesives

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Permabond ET5365A

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	stance/mixt	ture and of the com	pany/undertaking
1.1. Product identifier			
Product name	Permabond E	ET5365A	
1.2. Relevant identified uses of the substance or m	ixture and use	s advised against	
Intended use	Adhesive		
Identified Uses	Industrial	Professional	I Consumer
Use	\checkmark	\checkmark	-
1.3. Details of the supplier of the safety data sheet			
Name	Permabond E	Engineering Adhesives	
Full address		er Lohweg 18	
District and Country	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	
·····		51	
Supplier:	Permabond B	Engineering Adhesives Ltd	
		, Colden Common,	
	-	Hampshire SO21 1WP, UK	
	tel: +44 (0)1	-	
	• • • • •	rope@permabond.com	
	man. mo.eu	rope@permabolid.com	
1.4. Emergency telephone number			
For urgent inquiries refer to	+44 (0)1962 7	711 661 (8.00 am-5.00 pm	Mon-Fri)
	CHEMTREC	UK: +(44)-870-8200418	
		reland: +(353)-19014670	
		Australia: +(61)-290372994	
		New Zealand: +(64)-980100	
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:H319Causes serious eye irritation.Eye irritation, category 2H319Causes serious eye irritation.Skin irritation, category 2H315Causes skin irritation.Skin sensitization, category 1H317May cause an allergic skin reaction.Hazardous to the aquatic environment, chronicH411Toxic to aquatic life with long lasting effects.toxicity, category 2H317H317

ΕN



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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:	
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statements:	
P273	Avoid release to the environment.
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.
Contains:	1,4-bis(2,3 epoxypropoxy)butane EPOXY RESIN (Number average MW <= 700)

2.3. Other hazards

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

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

SECTION 3. Con	nposition/informa	tion on ingredients	
3.2. Mixtures			
Contains:			
Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
EPOXY RESI	N (Number averag	e MW <= 700)	
INDEX		$60 \le x < 100$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411, EUH205
EC CAS	216-823-5 1675-54-3		Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%
	01-2119456619-	26-XXXX	
1,4-bis(2,3 ep	oxypropoxy)buta	ne	
INDEX	603-072-00-7	1≤x< 3	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 3 H412
EC	219-371-7		LD50 Oral: 1882 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation mists/powders: 1,5 mg/l, STA Inhalation vapours: 11 mg/l
CAS	2425-79-8		
REACH Reg.	01-2119494060-	45-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

Predicted no-effect concentration - PNEC Normal value in fresh water 0,024 mg/l Normal value in marine water 0,002 mg/l Normal value for fresh water sediment 0,084 mg/kg/d Normal value for marine water sediment 0,084 mg/kg/d Normal value for marine water sediment 0,088 mg/kg/d Normal value for the food chain (secondary poisoning) 0,028 mg/kg/d Normal value for the terrestrial compartment 0,003 mg/kg/d Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Effects on consumers Effects on workers Chronic Chronic Route of exposure Acute Acute Chronic Acute Chronic Oral LOW 0,33 mg/m3 mg/m3 mg/m3 Skin HIGH HIGH HIGH 1,16 HIGH HIGH 4,7 mg/kg bw/d mg/kg bw/d mg/kg bw/d mg/kg mg/kg mg/kg				1,4-bis(2,3 ep	oxypropoxy)bu	tane			
Normal value in marine water 0,002 mg/l Normal value for fresh water sediment 0,084 mg/kg/d Normal value for marine water sediment 0,008 mg/kg/d Normal value of STP microorganisms 100 mg/l Normal value of STP microorganisms 0,028 mg/kg/d Normal value of of the food chain (secondary poisoning) 0,028 mg/kg Normal value for the terrestrial compartment 0,003 mg/kg/d Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Route of exposure Acute Chronic Chronic Chronic Oral local systemic local systemic local systemic Inhalation HIGH HIGH HIGH 1,16 HIGH HIGH 4,7 mg/kg bw/d MIGH HIGH HIGH 6,66 mg/kg bw/d mg/kg bw/d mg/kg bw/d	Predicted no-effect con	ncentration	- PNEC						
Normal value for fresh water sediment 0,084 mg/kg/d Normal value for marine water sediment 0,008 mg/kg/d Normal value of STP microorganisms 100 mg/l Normal value of STP microorganisms 0,028 mg/kg Normal value for the food chain (secondary poisoning) 0,028 mg/kg Normal value for the terrestrial compartment 0,003 mg/kg/d Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Route of exposure Acute Chronic Chronic Acute Chronic Inhalation HIGH HIGH HIGH 1,16 HIGH HIGH 4,77 mg/kg bw/d Skin HIGH HIGH 3,33 HIGH HIGH 6,66 mg/kg bw/d mg/kg bw/d mg/kg bw/d mg/kg mg/kg mg/kg	Normal value in fresh	water					0,024	mg/l	
Normal value for marine water sediment 0,008 mg/kg/d Normal value of STP microorganisms 100 mg/l Normal value for the food chain (secondary poisoning) 0,028 mg/kg Normal value for the terrestrial compartment 0,003 mg/kg/d Normal value for the terrestrial compartment Oneffect level - DNEL / DMEL Effects on consumers Effects on workers Route of exposure Acute Chronic Chronic Acute Chronic Inhalation HIGH HIGH HIGH 1,16 HIGH HIGH 4,7 Mg/m3 Skin HIGH HIGH HIGH 3,33 HIGH HIGH 6,66	Normal value in mari	ne water					0,002	mg/l	
Normal value of STP microorganisms 100 mg/l Normal value for the food chain (secondary poisoning) 0,028 mg/kg Normal value for the terrestrial compartment 0,003 mg/kg/d Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Effects on workers Route of exposure Acute Acute Chronic Acute Acute Chronic Inhalation HIGH HIGH HIGH 1,16 HIGH HIGH 4,7 Mg/m3 Skin HIGH HIGH HIGH 3,33 HIGH HIGH HIGH 6,66	Normal value for fres	h water sedi	ment				0,084	mg/kg/d	
Normal value for the food chain (secondary poisoning) 0,028 mg/kg Normal value for the terrestrial compartment 0,003 mg/kg/d Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Route of exposure Acute Acute Chronic Acute Acute Chronic Iocal systemic local systemic local systemic local systemic Oral LOW 0,33 mg/kg bw/d	Normal value for mar	ine water se	diment				0,008	mg/kg/d	
Normal value for the terrestrial compartment 0,003 mg/kg/d Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Effects on workers Route of exposure Acute Acute Chronic Acute Acute Chronic Iocal systemic Iocal systemic Iocal systemic Iocal systemic Iocal systemic Oral LOW 0,33 mg/kg bw/d	Normal value of STP	microorgani	sms				100	mg/l	
Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Route of exposure Acute Acute Chronic Acute Acute Chronic local systemic local systemic local systemic local systemic local systemic Oral LOW 0,33 mg/kg bw/d	Normal value for the	food chain (s	secondary poiso	ning)			0,028	mg/kg	
Effects on consumers Effects on workers Route of exposure Acute Acute Chronic Chronic Acute Acute Chronic Chronic Iocal systemic local systemic local systemic local systemic local systemic local systemic Oral LOW 0,33 mg/kg bw/d mg/kg bw/d - - - - - Inhalation HIGH HIGH HIGH 1,16 mg/m3 HIGH HIGH 4,7 mg/m3 Skin HIGH HIGH HIGH Big bw/d - - - -	Normal value for the	terrestrial co	mpartment				0,003	mg/kg/d	
Route of exposure Acute Acute Chronic Chronic Acute Acute Chronic Chronic Iocal systemic Iocal Iocal systemic Iocal Iocal systemic Iocal Iocal	Health - Derived no-eff	ect level - D	NEL / DMEL						
Iocal systemic Iocal systemic Iocal systemic Iocal systemic Iocal systemic Iocal systemic Inhalation HIGH HIGH HIGH 1,16 HIGH HIGH 4,7 Skin HIGH HIGH HIGH 3,33 HIGH HIGH 6,66 mg/kg bw/d mg/kg bw/d mg/kg bw/d mg/kg bw/d mg/kg		Effects or	n consumers			Effects on w	vorkers		
Oral LOW 0,33 mg/kg bw/d Inhalation HIGH HIGH HIGH 1,16 HIGH HIGH 4,7 mg/m3 Skin HIGH HIGH HIGH 3,33 HIGH HIGH 6,66 mg/kg bw/d	Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
Inhalation HIGH HIGH HIGH 1,16 HIGH HIGH 4,7 Skin HIGH HIGH 1,33 HIGH HIGH 4,66 mg/kg bw/d mg/kg bw/d mg/kg bw/d mg/kg bw/d mg/kg bw/d		local	systemic	local	systemic	local	systemic	local	systemic
Inhalation HIGH HIGH HIGH 1,16 HIGH HIGH HIGH 4,7 skin HIGH HIGH HIGH 3,33 HIGH HIGH HIGH 6,66 mg/kg bw/d mg/kg mg/kg	Oral		LOW		,				
Skin HIGH HIGH HIGH 3,33 HIGH HIGH HIGH 6,66 mg/kg bw/d mg/kg	Inhalation	HIGH	HIGH	HIGH	00	HIGH	HIGH	HIGH	4,7
mg/kg bw/d mg/kg					mg/m3				mg/m3
	Skin	HIGH	HIGH	HIGH	3,33	HIGH	HIGH	HIGH	6,66
bw/d					mg/kg bw/d				mg/kg
									bw/d

Predicted no-effect concentration - PNEC Normal value in fresh water 0,006 mg/l Normal value in marine water 0,001 mg/l Normal value for fresh water sediment 0,341 mg/kg Normal value for marine water sediment 0.034 mg/kg Normal value of STP microorganisms 10 mg/l Normal value for the food chain (secondary poisoning) 11 mg/kg Normal value for the terrestrial compartment 0,065 mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Route of exposure Acute Acute Chronic Chronic Acute Acute Chronic Chronic local systemic local systemic local systemic local systemic Oral 0,5 mg/kg/d Inhalation 0,87 4,93 mg/m3 mg/m3 Skin 0,0893 0,75 mg/kg/d mg/kg/d

EPOXY RESIN (Number average MW <= 700)

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low



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

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.

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		paste			
Colour		cream			
Odour		mild			
Melting point / freezing point		not available			
Initial boiling point		not available			
Flammability		not available			
Lower explosive limit		not available			
Upper explosive limit		not available			
Flash point	>	100 °C			
Auto-ignition temperature		not available			
Decomposition temperature		not available			
pH		not available	Reason for missing	data:subs	stance/mixture is
			non-soluble	(in	water)
Kinematic viscosity		not available			,
Dynamic viscosity		~ 150000 mPa.s_Thixo	Temperature: 23 °C	2	
Solubility		not available			
Partition coefficient: n-octanol/water		not available			
Vapour pressure		not available			
Density and/or relative density		1,4			
Relative vapour density		not available			
Particle characteristics		not applicable			

9.2. Other information

9.2.1. Information with regard to physical hazard classes



SECTION 9. Physical and chemical properties ... / >>

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

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.

> 5 mg/l

> 20 mg/l >2000 mg/kg

>2000 mg/kg

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 - mists / powders) of the mixture: ATE (Inhalation - vapours) of the mixture:	
ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	

1,4-bis(2,3 epoxypropoxy)butane LD50 (Dermal): STA (Dermal):

> 2150 mg/kg 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)



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SECTION 11. Toxicological information ... / >>

LD50 (Oral):	1882 mg/kg
EPOXY RESIN (Number average MW <= 700) LD50 (Dermal): LD50 (Oral):	> 2000 mg/kg > 2000 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

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

EPOXY RESIN (Number average MW <= 700)	
LC50 - for Fish	2 mg/l/96h
EC50 - for Crustacea	1,8 mg/l/48h
EC50 - for Algae / Aquatic Plants	11 mg/l/72h
Chronic NOEC for Crustacea	0,3 mg/l
Chronic NOEC for Algae / Aquatic Plants	4,2 mg/l

12.2. Persistence and degradability

EPOXY RESIN (Number average MW <= 700) NOT rapidly degradable

12.3. Bioaccumulative potential

31

SECTION 12. Ecological information ... / >>

EPOXY RESIN (Number average MW <= 700) BCF

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

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: 3082
ADR / RID:	In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to ADR provisions.
IMDG:	In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.
IATA:	In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

14.2. UN proper shipping name

ADR / RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW ≤ 700);
	FORMALDEHYDE, OLIGOMERIC REACTION PRODUCT WITH 1-CHLORO, 2,3-EPOXYPROPANE AND PHENOL)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW ≤ 700);
	FORMALDEHYDE, OLIGOMERIC REACTION PRODUCT WITH 1-CHLORO, 2,3-EPOXYPROPANE AND PHENOL)
IATA:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW ≤ 700);
	FORMALDEHYDE, OLIGOMERIC REACTION PRODUCT WITH 1-CHLORO, 2,3-EPOXYPROPANE AND PHENOL)

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SECTION 14. Transport information ... / >>

14.3. Transport hazard class(es)

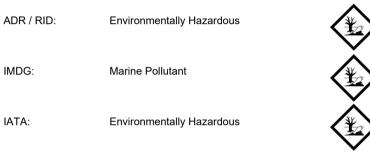
ADR / RID:	Class: 9	Label: 9
IMDG:	Class: 9	Label: 9
IATA:	Class: 9	Label: 9



14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards



14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 L	Tunnel restriction code: (-)
	Special provision: 274, 3	335, 375, 601	
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Passengers:	Maximum quantity: 450 L	Packaging instructions: 964
	Special provision:	A97, A158, A197, A215	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU:

E2

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

Product Point 3 Contained substance Point 75

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

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

Substances subject to authorisation (Annex XIV REACH)
None

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 2: 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:

	H302 H312 H332 H318 H319 H315 H317 H411 H412	Harmful in contact with skin. Harmful if inhaled. Causes serious eye damage. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
--	--	---

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



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- 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 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