Security data sheet



Product: TW42

Manufacturer: PERMABOND ENGINEERING ADHESIVES

Product group: **KLEBSTOFF**

Article group: 2-K KLEBSTOFF

Download: 20.05.2024

PERMABOND TW42B

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Revision nr.2 Dated 19/01/2024 Printed on 19/01/2024 Page n. 1 / 12

Replaced revision:1 (Dated 13/12/2023)

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/mixture and of the company/undertaking

1.1. Product identifier

Product name Permabond TW42B

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

Intended use Adhesive

Identified Uses Industrial Professional Consumer Use

1.3. Details of the supplier of the safety data sheet

Name Permabond Engineering Adhesives
Full address Niederkasseler Lohweg 18
District and Country 40547 Düsseldorf
Germany

Tel. +44 (0)1962 711 661

info.europe@permabond.com

e-mail address of the competent person

responsible for the Safety Data Sheet

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:

Skin corrosion, category 1C	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H412	Harmful to aquatic life with long lasting effects.
toxicity, category 3		



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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: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H412

Harmful to aquatic life with long lasting effects.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

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: POLYOXYPROPYLENEDIAMINE

FATTY ACIDS, C18- UNSATD., DIMERS, POLYMERIC REACTION PRODUCTS WITH TALL-OIL FATTY

ACIDS AND TRIETHYLENETETRAMINE EPOXY RESIN (Number average MW <= 700) 3-AMINO PROPYL TRIETHOXYSILANE

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 ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

POLYOXYPROPYLENEDIAMINE

Skin Corr. 1C H314, Eye Dam. 1 H318, Aquatic Chronic 3 H412 INDEX $10 \le x < 25$

EC 618-561-0 CAS 9046-10-0

REACH Reg. 01-2119557899-12-XXXX EPOXY RESIN (Number average MW <= 700)

INDEX $5 \le x < 10$ Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2

H411, EUH205

EC 216-823-5 Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%

CAS 1675-54-3

REACH Reg. 01-2119456619-26-XXXX 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

INDEX 603-069-00-0 $5 \le x < 10$

FC 202-013-9 90-72-2 CAS

REACH Reg. 01-2119560597-27-XXXX

Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315

STA Oral: 500 mg/kg



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SECTION 3. Composition/information on ingredients/>

FATTY ACIDS, C18- UNSATD., DIMERS, POLYMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE

INDEX

EC 500-191-5 CAS 68082-29-1

3-AMINO PROPYL TRIETHOXYSILANE

INDEX 612-108-00-0 0,1 ≤ x < 1 Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317

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

EC 213-048-4 STA Oral: 500 mg/kg

 $1 \le x < 5$

CAS 919-30-2 REACH Reg. 01-2119480479-24

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

SECTION 4. First aid measures

4.1. Description of first aid measures

Skin: Wash 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.

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.



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

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

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

			POLYOXYPR	OPYLENEDIA	MINE			
redicted no-effect co	ncentration	- PNEC						
Normal value in fresh	n water					15	mg/l	
Normal value in mari	ne water					14	mg/l	
Normal value for fres	h water sedi	ment				132	mg/kg	
Normal value for mar	ine water se	diment				125	mg/kg	
ealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on v	workers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation								10,58
								mg/m3
Skin								2,5
								mg/kg/d

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL								
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					84	mg/l	
Normal value in marir	ne water					84	mg/l	
Health - Derived no-effect level - DNEL / DMEL								
	Effects or	n consumers			Effects on v	workers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation							0,31 mg/m3	



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SECTION 8. Exposure controls/personal protection

ATTY ACIDS CAS LIN	ICATD DI	MEDO DOLVME	DIC DEACTION	DDODUCTO W	ITILTALL OI	L FATTY ACIDO	AND	
ATTY ACIDS, C18- UN TRIETHYLENETETR		MERS, POLYMEI	RIC REACTION	PRODUCTS W	IIH IALL-OI	L FATTY ACIDS	AND	
redicted no-effect co		- PNEC						
Normal value in fresh						0,004	mg/l	
Normal value in mari	ne water					0	mg/l	
Normal value for fres	h water sed	liment				434,02	mg/kg/d	
Normal value for mar	ine water se	ediment				43,4	mg/kg/d	
Normal value of STP	microorgan	isms				3,84	mg/l	
Normal value for the	terrestrial co	ompartment				86,78	mg/kg/d	
ealth - Derived no-eff	ect level - [ONEL / DMEL						
	Effects o	n consumers			Effects on w	orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				0.0972 mg/kg bw/d				0.952
Inhalation				0.169				0.952
				mg/m3				mg/m3
Skin				0.0972				0.272
				mg/kg bw/d				mg/kg
								bw/d

		EDO	VV DECIM (No.	har avarage N	IVA/ <= 700 \			
			XY RESIN (Num	iber average i	IVV <= 700)			
redicted no-effect cor		- PNEC						
Normal value in fresh						0,006	mg/l	
Normal value in marii						0,001	mg/l	
Normal value for fres	h water sedi	iment				0,341	mg/kg	
Normal value for mar	Normal value for marine water sediment							
Normal value of STP	microorgan	isms				10	mg/l	
Normal value for the	food chain (secondary poisor	ning)			11	mg/kg	
Normal value for the	terrestrial co	mpartment				0,065	mg/kg	
ealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects of	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				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

		2	AMINO PROPY	/I TRIETHOV	CII ANE			
	4 4!		AMINO PROP	LIKIETHUK	SILANE			
Predicted no-effect cor		- PNEC						
Normal value in fresh						33	mg/l	
Normal value in mari	ne water					33	mg/l	
Normal value for fres	h water sed	iment				26	mg/kg	
Normal value for mar	ine water se	ediment				26	mg/kg	
Normal value of STP	microorgan	isms				13	mg/l	
lealth - Derived no-eff							Ü	
	Effects o	n consumers			Effects on v	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		5		5				
		mg/kg/d		mg/kg/d				
Inhalation		17,4		17		59		59
		mg/m3		mg/m3		mg/m3		mg/m3
Skin		5		5		8,3		8,3
		mg/kg/d		mg/kg/d		mg/kg/d		mg/kg/d

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low $\mbox{hazard} \hspace{0.2cm} ; \hspace{0.2cm} \mbox{MED = medium hazard} \hspace{0.2cm} ; \hspace{0.2cm} \mbox{HIGH = high hazard}.$

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.



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

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
Appearance		paste
Colour		grey
Odour		amino
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
рН		not available

Kinematic viscosity not available

Dynamic viscosity ~ 370000 mPa.s Thixo

Solubility not available
Partition coefficient: n-octanol/water not available
Vapour pressure not available
Density and/or relative density 1,6
Relative vapour density not available
Particle characteristics not applicable

Information

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

Temperature: 23 °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



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SECTION 10. Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

Protect from direct sunlight.

Avoid contact with acids and oxidizing agents.

10.5. Incompatible materials

See the reactivity section.

10.6. Hazardous decomposition products

By thermal decomposition, carbon monoxide, carbon dioxide and ed other unidentified organic compounds.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: >2000 mg/kg

ATE (Dermal) of the mixture: Not classified (no significant component)

POLYOXYPROPYLENEDIAMINE

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

ΕN



Permabond Engineering Adhesives

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SECTION 11. Toxicological information .../>>

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

STA (Oral):

500 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)

FATTY ACIDS, C18- UNSATD., DIMERS, POLYMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND

TRIETHYLENETETRAMINE

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

EPOXY RESIN (Number average MW <= 700)

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

3-AMINO PROPYL TRIETHOXYSILANE

 LD50 (Dermal):
 429 mg/kg

 LD50 (Oral):
 178 mg/kg

 LC50 (Inhalation vapours):
 735 mg/l/4h

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

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 the aquatic organisms. In the long term, it have negative effects on aquatic 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

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SECTION 12. Ecological information .../>>

Chronic NOEC for Crustacea 0,3 mg/l Chronic NOEC for Algae / Aquatic Plants 4,2 mg/l

3-AMINO PROPYL TRIETHOXYSILANE

 LC50 - for Fish
 934 mg/l/96h

 EC50 - for Crustacea
 331 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 1000 mg/l/72h

12.2. Persistence and degradability

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Solubility in water > 10000 mg/l

NOT rapidly degradable

EPOXY RESIN (Number average MW <= 700)

NOT rapidly degradable

3-AMINO PROPYL TRIETHOXYSILANE

Rapidly degradable

12.3. Bioaccumulative potential

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Partition coefficient: n-octanol/water -0,66

EPOXY RESIN (Number average MW <= 700)

BCF 31

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 ≥ 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: 2735

@EPY 11.5.2 - SDS 1004.14



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SECTION 14. Transport information .../>>

14.2. UN proper shipping name

ADR / RID: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (contains

Polyoxypropylenediamine)

IMDG: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (contains

Polyoxypropylenediamine)

IATA: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (contains

Polyoxypropylenediamine)

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 80 Limited Quantities: 5 L Tunnel restriction code: (E)

Special provision: 274

IMDG:EMS: F-A, S-BLimited Quantities: 5 LIATA:Cargo:Maximum quantity: 60 L

Cargo: Maximum quantity: 60 L Packaging instructions: 856
Passengers: Maximum quantity: 5 L Packaging instructions: 852

Special provision: A3, A803

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

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 ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

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

©EPY 11.5.2 - SDS 1004.14

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SECTION 15. Regulatory information .../>>

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

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

WGK 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:

Acute Tox. 4
Skin Corr. 1B
Skin Corr. 1C
Skin corrosion, category 1C
Sye Dam. 1
Sye Irrit. 2
Skin Irrit. 2
Skin Sens. 1

Acute toxicity, category 4
Skin corrosion, category 1B
Skin corrosion, category 1C
Sye James 1
Skin corrosion, category 1
Sye James 2
Skin corrosion, category 2
Skin corrosion, category 2
Skin sensitization, category 2
Skin sensitization, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2 **Aquatic Chronic 3** Hazardous to the aquatic environment, chronic toxicity, category 3

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
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.
 H412 Harmful to aquatic life with long lasting effects.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

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.



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SECTION 16. Other information .../>>

- 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 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:

14.