Security data sheet



Product:	ET538
Manufacturer:	PERMABOND ENGINEERING ADHESIVES
Product group:	KLEBSTOFF
Article group:	2-K KLEBSTOFF
Download:	27.04.2024

PERMABOND ET538B

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Tewipack Uhl GmbH Industriestraße 15 D-75382 Althengstett

Telephone: E-Mail: +49(0)7051/9297-0 Website: +49(0)7051/9297-99 www.tewipack.de

Fax

info@tewipack.de

Managing director: Alexander Uhl, Michael Uhl HRB 330424 Calw Amtsgericht Stuttgart 85

Bank details: Sparkasse Pforzheim BLZ 666 500 Konto 17 787

Commerzbank Sindelfingen BLZ 603 400 71 Konto 8 001 166

Vereinigte Volksbank AG Böblingen BLZ 603 900 00 Konto 80 089 003

Postbank Stuttgart BLZ 600 100 70 Konto 146 294 708

Devereberd
Permapond
Engineering Adhesives

Permabond ET538B

Safety Data Sheet

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

SECTION 1. Identific	ation of the substance/	nixture and of the com	pany/undertaking		
1.1. Product identifier					
Product name	Permab	ond ET538B			
1.2. Relevant identified uses	s of the substance or mixture and	l uses advised against			
Intended use	Adhesiv	e			
Identified Uses	Industria	al Professional	Consume	er	
Use	\checkmark	\checkmark	-		
1.3. Details of the supplier of	of the safety data sheet				
Name	Permab	ond Engineering Adhesives			
Full address	Niederka	asseler Lohweg 18			
District and Country	40547	Düsseldorf			
		Germany			
	Tel.	+44 (0)1962 711 661			
e-mail address of the comp					
responsible for the Safety	Data Sneet Into.euro	ope@permabond.com			
Supplier:	Permab	ond Engineering Adhesives Ltd			
	Wessex	Way, Colden Common,			
	Winchester, Hampshire SO21 1WP, UK				
	tel: +44	(0)1962 711 661			
	mail: in	fo.europe@permabond.com			
1.4. Emergency telephone n	number				
For urgent inquiries refer to	o +44 (0)1	962 711 661 (8.00 am-5.00 pm	Mon-Fri)		
	СНЕМТ	REC UK: +(44)-870-8200418			
		REC Ireland: +(353)-19014670			
	CHEMTI	REC Australia: +(61)-290372994			
	CHEMTI	REC New Zealand: +(64)-980100	34		

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:		
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H411	Toxic to aquatic life with long lasting effects.
toxicity, category 2		



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SECTION 2. Hazards identification ... / >>

2.2. Label elements

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



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. Composition/information on ingredients

3.2. Mixtures

Contains:		
Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
POLYAMINOAMIDE		
INDEX	$30 \le x \le 60$	Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC 500-191-5		
CAS 68082-29-1		
REACH Reg. 01-21199723.	20-44-XXXX	
AMINES, POLYETHYLENEP	OLY-, TETRAETHYLENE	PENTAMINE FRACTION
INDEX	$3 \le x \le 5$	Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC 292-587-7		STA Oral: 500 mg/kg, LD50 Dermal: 1260 mg/kg
CAS 90640-66-7		
REACH Reg. 01-21194872	90-37-XXXX	
2,4,6-TRIS(DIMETHYLAMING	OMETHYL)PHENOL	
INDEX 603-069-00-0	1 ≤ x < 5	Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 202-013-9		STA Oral: 500 mg/kg
CAS 90-72-2		
REACH Reg. 01-21195605	97-27-XXXX	
-		



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SECTION 3. Composition/information on ingredients/>>

3-AMINO PROPYL TRIETHOXYSILANE

 INDEX
 612-108-00-0
 1 ≤ x < 3</th>

 EC
 213-048-4

 CAS
 919-30-2

 REACH Reg.
 01-2119480479-24

Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317 STA Oral: 500 mg/kg

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.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

ΕN



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

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Adhesive

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

dicted no-effect con Normal value in fresh						0,068	mg/l	
Normal value in marine water						0,008	mg/l	
Normal value for fresh water sediment						3,2	mg/kg	
Normal value for mar						0,32	mg/kg	
Normal value of STP						4,6	mg/l	
Normal value for the	•					2,5	mg/kg/d	
alth - Derived no-eff						2,0	mg/kg/u	
ann - Denved no-en		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	1000	26		0.53				0,000,000
		mg/kg bw/d		mg/kg bw/d				
Inhalation				5.5		6940		1.29
						mg/m3		mg/m3
Skin	1.29				0.036	6940	0.036	0
	mg/cm2						mg/cm2	
							-	
dicted no-effect co			RIS(DIMETHYL		(L)PHENOL			
Normal value in fresh	n water		RIS(DIMETHYL		(L)PHENOL	84	mg/l	
Normal value in fresh Normal value in mari	n water ne water	- PNEC	RIS(DIMETHYI	AMINOMETHY	(L)PHENOL	84 84	mg/l mg/l	
dicted no-effect co Normal value in fresh Normal value in mari alth - Derived no-eff	n water ne water ect level - D	- PNEC	RIS(DIMETHYI	AMINOMETH	·	84	•	
Normal value in fresh Normal value in mari alth - Derived no-eff	n water ne water ect level - D Effects or	- PNEC DNEL / DMEL n consumers			Effects on w	84 vorkers	mg/l	
Normal value in fresh Normal value in mari	n water ne water ect level - D Effects or Acute	- PNEC DNEL / DMEL n consumers Acute	Chronic	Chronic	Effects on w Acute	84 vorkers Acute	mg/l Chronic	Chronic
Normal value in fresh Normal value in mari alth - Derived no-eff	n water ne water ect level - D Effects or	- PNEC DNEL / DMEL n consumers			Effects on w	84 vorkers	mg/l	Chronic systemic



SECTION 8. Exposure controls/personal protection/>>

			POLYA	MINOAMIDE				
redicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,004	mg/l	
Normal value in marin	ne water					0	mg/l	
Normal value for fres	h water sedi	iment				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 - D	NEL / DMEL						
	Effects of	n consumers			Effects on v	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				0.0972				0.952
				mg/kg bw/d				
Inhalation				0.169				0.952
				mg/m3				mg/m3
Skin				0.0972				0.272
				mg/kg bw/d				mg/kg
								bw/d

3-AMINO PROPYL TRIETHOXYSILANE

		<u> </u>		LINEMON	JILANL			
Predicted no-effect con	ncentration	- PNEC						
Normal value in fresh	n water					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	rine water se	ediment				26	mg/kg	
Normal value of STP	microorgan	isms				13	mg/l	
Health - Derived no-eff	ect level - D	DNEL / DMEL					•	
	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 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

ΕN



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

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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

ata:substance/mixture is	
(in water)	
,	

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

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.

ΕN



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

10.6. Hazardous decomposition products

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

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture: Not classified (no significant component) >2000 mg/kg >2000 mg/kg

AMINES, POLYETHYLENEPOLY-, TETRAETHYLE	ENEPENTAMINE FRACTION
LD50 (Dermal):	1260 mg/kg
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)

> 2000 mg/kg

> 2000 mg/kg

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL STA (Oral):

POLYAMINOAMIDE LD50 (Dermal): LD50 (Oral):

3-AMINO PROPYL TRIETHOXYSILANE LD50 (Dermal): LD50 (Oral): STA (Oral):

429 mg/kg 178 mg/kg 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) 735 mg/l/4h

(figure used for calculation of the acute toxicity estimate of the mixture)

500 mg/kg estimate from table 3.1.2 of Annex I of the CLP

LC50 (Inhalation vapours):

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin



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SECTION 11. Toxicological information .../>>

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

AMINES, POLYETHYLENEPOLY-, TETRAETHYLENEP LC50 - for Fish EC50 - for Crustacea	ENTAMINE FRACTION 420 mg/l/96h 24,1 mg/l/48h
POLYAMINOAMIDE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	7,07 mg/l/96h 7,07 mg/l/48h 4,34 mg/l/72h
3-AMINO PROPYL TRIETHOXYSILANE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	934 mg/l/96h 331 mg/l/48h 1000 mg/l/72h
12.2. Persistence and degradability	
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL Solubility in water NOT rapidly degradable	> 10000 mg/l
3-AMINO PROPYL TRIETHOXYSILANE Rapidly degradable	
12.3. Bioaccumulative potential	
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL Partition coefficient: n-octanol/water	-0,66
12.4. Mobility in soil	
Information not available	

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SECTION 12. Ecological information ... / >>

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, IA	TA: 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 shippi	ing name

ADR / RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW ≤ 700); EPOXY PHENOL RESIN)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW ≤ 700); EPOXY PHENOL RESIN)
IATA:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW ≤ 700); EPOXY PHENOL RESIN)

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



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SECTION 14. Transport information ... / >>

14.5. Environmental hazards

ADR / RID:	Environmentally Hazardous	
IMDG:	Marine Pollutant	× ×
IATA:	Environmentally Hazardous	

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 L	Tunnel restriction code: (-)
	Special provision: 274,	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:

None

Substances subject to the Rotterdam Convention: None

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.



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SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Skin Corr. 1B Skin corrosion, category 1B	
Eye Dam. 1 Serious eye damage, category 1	
Eye Irrit. 2 Eye irritation, category 2	
Skin Irrit. 2 Skin irritation, category 2	
Skin Sens. 1 Skin sensitization, category 1	
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, categ	ory 2
H302 Harmful if swallowed.	
H312 Harmful in contact with skin.	
H314 Causes severe skin burns and eye damage.	
H318 Causes serious eye damage.	
H319 Causes serious eye irritation.	
H315 Causes skin irritation.	
H317 May cause an allergic skin reaction.	
H411 Toxic 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
- 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)



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SECTION 16. Other information ... / >>

- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148

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- 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.