Permab	ond
Engineering A	

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Permabond ET515B

Safety Data Sheet

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

SECTION 1. Identification of the subs	stance/mix	ture and of th	e company/u	undertaking
1.1. Product identifier				
Product name	Permabond	ET515B		
1.2. Relevant identified uses of the substance or m	ixture and use	es advised against		
Intended use	Adhesive			
Identified Uses	Industrial	Prof	fessional	Consumer
Use	\checkmark	 Image: A start of the start of		-
1.3. Details of the supplier of the safety data sheet				
Name		Engineering Adhes	sives	
Full address		ler Lohweg 18		
District and Country	40547	Düsseldorf		
	Tel.	Germany +44 (0)1962 711 6	64	
e-mail address of the competent person	Tel.	+44 (0)1962 / 11 6		
responsible for the Safety Data Sheet	info.europe@	@permabond.com		
Supplier:	Permabond	Engineering Adhes	sives Ltd	
		, Colden Common		
		Hampshire SO21 1	WP, UK	
	tel: +44 (0)1			
	mail: info.eu	urope@permabond	l.com	
1.4. Emergency telephone number				
For urgent inquiries refer to	+44 (0)1962	711 661(8.00 am-5	5.00 pm Mon-Fr	i)
	CHEMTREC CHEMTREC	UK: +(44)-870-8200 Ireland: +(353)-190 Australia: +(61)-29 New Zealand: +(64	014670 0372994	
SECTION 2. Hazards identification				
2.1. Classification of the substance or mixture				
The product is classified as hazardous pursuant to amendments and supplements). The product thus r				
2020/878. Any additional information concerning the risks for I	nealth and/or th	e environment are <u>c</u>	given in sections 1	1 and 12 of this sheet.
		-	-	
Hazard classification and indication:				
Skin sensitization, category 1B		H317		Illergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3		H412	Harmiul to aqua	atic life with long lasting effects.
2.2. Label elements				
Hazard labelling pursuant to EC Regulation 1272/2	008 (CLP) and	subsequent amendr	ments and suppler	nents.
Hazard pictograms:				

EN



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SECTION 2. Hazards identification ... / >>

Signal words:	Warning
Hazard statements:	
H317	May cause an allergic skin reaction.
H412	Harmful 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.
Contains:	REACTION MASS OF TRIENTINE AND TRIENTINE, MONO- AND DI-PROPOXYLATED MERCAPTAN-TERMINATED OLIGOMER
2.3. Other hazards	
On the basis of available data	ι, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.
The product doos not contain	substances with endeering disrupting properties in concentration $> 0.1\%$

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

x = Conc. %

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification

Classification (EC) 1272/2008 (CLP)

MERCAPTAN-TERMINATED OLIGOMER

INDFX $60 \le x \le 100$ Skin Sens. 1B H317, Aquatic Chronic 3 H412 EC 701-196-7 CAS 72244-98-5 REACH Reg. 01-2120118957-46-XXXX REACTION MASS OF TRIENTINE AND TRIENTINE, MONO- AND DI-PROPOXYLATED INDEX $5 \le x < 10$ Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 2 H411 EC 942-835-1 CAS REACH Reg. 01-2120098765-38-XXXX

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 assistanceEyes: 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.

ΕN



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 CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

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.

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

redicted no-effect cor		N MASS OF TRI		,			_	
Normal value in fresh						0,004	mg/l	
Normal value in marine water					0	mg/l		
Normal value for fresh water sediment					0,171		mg/kg/d	
Normal value for marine water sediment0,017mg/kg/dNormal value of STP microorganisms4,3mg/l						0,017	00	
Normal value for the terrestrial compartment 0,003					0,003	mg/kg/d		
lealth - Derived no-eff							0 0	
	Effects o	n consumers			Effects on wo	orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation								3.51 mg/m3
								bw/d
								bw/d
Indiated to offect con	acontration		ERCAPTAN-TEI	RMINATED OLI	GOMER			bw/d
Predicted no-effect con			ERCAPTAN-TE	RMINATED OLI	GOMER	0.07	ma/l	bw/d
Normal value in fresh	water		ERCAPTAN-TEI	RMINATED OLI	GOMER	0,07	mg/l	bw/d
Normal value in fresh Normal value in mari	water ne water	- PNEC	ERCAPTAN-TEI	RMINATED OLI	GOMER	0,007	mg/l	bw/d
Normal value in fresh	water ne water h water sed	- PNEC	ERCAPTAN-TEI	RMINATED OLI	GOMER	0,007 0,322	mg/l mg/kg/d	bw/d
Normal value in fresh Normal value in marin Normal value for fres Normal value for mar	water ne water h water sed ine water se	- PNEC iment ediment	ERCAPTAN-TEI	RMINATED OLI	GOMER	0,007	mg/l mg/kg/d mg/kg/d	bw/d
Normal value in fresh Normal value in marii Normal value for fres Normal value for mar Normal value of STP	water ne water h water sed ine water se microorgan	- PNEC iment ediment isms	ERCAPTAN-TEI	RMINATED OLI	GOMER	0,007 0,322 0,032 10	mg/l mg/kg/d mg/kg/d mg/l	bw/d
Normal value in fresh Normal value in marin Normal value for fres Normal value for mar	water ne water h water sed ine water se microorgan terrestrial co	- PNEC iment ediment isms ompartment	ERCAPTAN-TEI	RMINATED OLI	GOMER	0,007 0,322 0,032	mg/l mg/kg/d mg/kg/d	bw/d
Normal value in fresh Normal value in marii Normal value for fres Normal value for mar Normal value of STP Normal value for the	water ne water h water sed ine water se microorgan terrestrial co ect level - C	- PNEC iment ediment isms ompartment	ERCAPTAN-TEI	RMINATED OLI	GOMER Effects on wo	0,007 0,322 0,032 10 0,023	mg/l mg/kg/d mg/kg/d mg/l	bw/d
Normal value in fresh Normal value in marii Normal value for fres Normal value for mar Normal value of STP Normal value for the	water ne water h water sed ine water se microorgan terrestrial co ect level - C	- PNEC iment ediment isms ompartment DNEL / DMEL	ERCAPTAN-TE	Chronic		0,007 0,322 0,032 10 0,023	mg/l mg/kg/d mg/kg/d mg/l	bw/d
Normal value in fresh Normal value in marii Normal value for fres Normal value for mar Normal value of STP Normal value for the lealth - Derived no-eff	water ne water h water sed ine water sed microorgan terrestrial co ect level - D Effects o	- PNEC iment ediment isms ompartment DNEL / DMEL n consumers			Effects on wo	0,007 0,322 0,032 10 0,023	mg/l mg/kg/d mg/kg/d mg/l mg/kg/d	
Normal value in fresh Normal value in marii Normal value for fres Normal value for mar Normal value of STP Normal value for the lealth - Derived no-eff	water ne water h water sed ine water sed microorgan terrestrial co ect level - D Effects o Acute	- PNEC iment ediment isms ompartment DNEL / DMEL n consumers Acute	Chronic	Chronic systemic 1,9	Effects on wo	0,007 0,322 0,032 10 0,023 orkers Acute	mg/l mg/kg/d mg/kg/d mg/kg/d Chronic	Chronic
Normal value in fresh Normal value in marii Normal value for fres Normal value for mar Normal value of STP Normal value for the Iealth - Derived no-eff Route of exposure	water ne water h water sed ine water sed microorgan terrestrial co ect level - D Effects o Acute	- PNEC iment ediment isms ompartment DNEL / DMEL n consumers Acute	Chronic	Chronic systemic	Effects on wo	0,007 0,322 0,032 10 0,023 orkers Acute	mg/l mg/kg/d mg/kg/d mg/kg/d Chronic	Chronic
Normal value in fresh Normal value in marii Normal value for fres Normal value for mar Normal value of STP Normal value for the Iealth - Derived no-eff Route of exposure Oral	water ne water h water sed ine water sed microorgan terrestrial co ect level - D Effects o Acute	- PNEC iment ediment isms ompartment DNEL / DMEL n consumers Acute	Chronic	Chronic systemic 1,9 mg/kg bw/d	Effects on wo	0,007 0,322 0,032 10 0,023 orkers Acute	mg/l mg/kg/d mg/kg/d mg/kg/d Chronic	Chronic systemic

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.

mg/kg bw/d

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 (see standard EN 374).

The following should be considered when choosing work glove material: 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

mg/kg bw/d



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SECTION 8. Exposure controls/personal protection/>

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		liquid	information		
Colour		colourless			
Odour		characteristic			
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	Reason for missing	g data:subs	stance/mixture is
			non-soluble	(in	water)
Kinematic viscosity		not available			,
Dynamic viscosity		~ 19000 mPa.s	Temperature: 23 °	С	
Solubility		not available			
Partition coefficient: n-octanol/water		not available			
Vapour pressure		not available			
Density and/or relative density		1,1			
Relative vapour density		not available			
Particle characteristics		not applicable			

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

@EPY 11.4.1 - SDS 1004.14



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

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

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) Not classified (no significant component) Not classified (no significant component)

REACTION MASS OF TRIENTINE AND T	RIENTINE, MONO- AND DI-PROPOXYLATED
LD50 (Dermal):	> 2150 mg/kg
LD50 (Oral):	4500 mg/kg

MERCAPTAN-TERMINATED OLIGOMER LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

> 2000 mg/kg > 2000 mg/kg > 20 mg/l/4h

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

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



SECTION 11. Toxicological information .../>>

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

MERCAPTAN-TERMINATED OLIGOMER LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Crustacea

87 mg/l/96h 12 mg/l/48h > 733 mg/l/72h 3,5 mg/l

12.2. Persistence and degradability

MERCAPTAN-TERMINATED OLIGOMER NOT rapidly degradable

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

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.



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SECTION 13. Disposal considerations ... / >>

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

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

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

3

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

Product Point

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

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

Substances subject to authorisation (Annex XIV REACH)

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

None

Substances subject to the Rotterdam Convention:



SECTION 15. Regulatory information ... / >>

None

None

Substances subject to the Stockholm Convention:

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:

Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1B Aquatic Chronic 2 Aquatic Chronic 3 H319 H315 H317 H411	Eye irritation, category 2 Skin irritation, category 2 Skin sensitization, category 1B Hazardous to the aquatic environment, chronic toxicity, category 2 Hazardous to the aquatic environment, chronic toxicity, category 3 Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
H412	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
- 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

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SECTION 16. Other information .../>>

- 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.

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