Security data sheet



Product:	TA4631
Manufacturer:	PERMABOND ENGINEERING ADHESIVES
Product group:	KLEBSTOFF
Article group:	2-K KLEBSTOFF
Download:	16.07.2025

# PERMABOND TA4631A

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Downool	
Perma	DUD
Engineering	Adhesives

Revision nr.1 Dated 31/03/2023 First compilation Printed on 31/03/2023 Page n. 1 / 11

Permabond TA4631A

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 TA	4631A			
1.2. Relevant identified uses of the substance or mixture and uses advised against					
Intended use	Adhesive				
Identified Uses	Industrial	Professional		Consumer	
Use	$\checkmark$	$\checkmark$		-	
1.3. Details of the supplier of the safety data sheet					
Name Full address District and Country	Niederkasseler 40547 D G	gineering Adhesives Lohweg 18 üsseldorf ermany 44 (0)1962 711 661			
e-mail address of the competent person responsible for the Safety Data Sheet	info.europe@p				
Supplier:	Wessex Way, C Winchester, Ha tel: +44 (0)196	gineering Adhesives Ltd colden Common, mpshire SO21 1WP, UK 2 711 661 pe@permabond.com			
1.4. Emergency telephone number					
For urgent inquiries refer to	+44 (0)1962 71	661 ( 8.00 am-5.00 pm	Mon-Fri)		
	CHEMTREC Ire	(: +(44)-870-8200418 land: +(353)-19014670 Istralia: +(61)-290372994 w Zealand: +(64)-9801003	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:		
Reproductive toxicity, category 1B	H360D	May damage the unborn child.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1A	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		

@EPY 11.5.1 - SDS 1004.14

EN



Permabond TA4631A

Revision nr.1 Dated 31/03/2023 First compilation Printed on 31/03/2023 Page n. 2 / 11

# 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:	
H360D	May damage the unborn child.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
	Restricted to professional users.
Precautionary statements:	
P202	Do not handle until all safety precautions have been read and understood.
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.
P308+P313	IF exposed or concerned: Get medical advice / attention.
Contains:	TETRAHYDROFURFURYL METHACRYLATE
Contains.	P-TOLUENESULPHONYL CHLORIDE
	2-PROPENOIC ACID, REACTION PRODUCTS WITH DIPENTAERYTHRITOL

# 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: Classification (EC) 1272/2008 (CLP) Identification x = Conc. % TETRAHYDROFURFURYL METHACRYLATE INDEX $60 \le x \le 100$ Repr. 1B H360D, Skin Sens. 1 H317, Aquatic Chronic 3 H412 EC 219-529-5 2455-24-5 CAS REACH Reg. 1-2120748481-53-XXXX 2-PROPENOIC ACID, REACTION PRODUCTS WITH DIPENTAERYTHRITOL INDEX $5 \le x < 10$ Eye Irrit. 2 H319, Skin Sens. 1A H317, Aquatic Chronic 3 H412 800-838-4 EC CAS 1384855-91-7 P-TOLUENESULPHONYL CHLORIDE INDEX 3≤x< 5 Met. Corr. 1 H290, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317 202-684-8 FC CAS 98-59-9

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



Permabond TA4631A

Revision nr.1 Dated 31/03/2023 First compilation Printed on 31/03/2023 Page n. 3 / 11

# **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.



Permabond TA4631A

Revision nr.1 Dated 31/03/2023 First compilation Printed on 31/03/2023 Page n. 4 / 11 ΕN

# 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

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

# 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

6.1C

Storage class TRGS 510 (Germany):

# 7.3. Specific end use(s)

Adhesive

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

# 8.1. Control parameters

		TETR	RAHYDROFURI	URYL METHA	ACRYLATE			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,347	mg/l	
Normal value in marir	ne water					0,035	mg/l	
Normal value for fres	h water sed	iment				2,12	mg/kg/d	
Normal value for mar	ine water se	ediment				0,212	mg/kg/d	
Normal value of STP	microorgan	isms				15,8	mg/l	
Normal value for the	terrestrial co	ompartment				0,221	mg/kg/d	
ealth - Derived no-effe	ect level - C	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				0.5				
				mg/kg/d				
Inhalation				0.87				3.53
				mg/m3				mg/m3
Skin				0.5				1
				mg/kg/d				mg/kg/d

			P-TOLUENESUL	PHONYL CHL	ORIDE			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,1	mg/l	
Normal value in marir	ne water					0,01	mg/l	
Normal value of STP	microorgani	sms				17,3	mg/l	
Health - Derived no-eff		NEL / DMEL			Effects on	workers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation								3,5 mg/m3
Skin								0.5 mg/kg bw/d



Partition coefficient: n-octanol/water

Density and/or relative density

Relative vapour density

Vapour pressure

Permabond Engineering Adhesives

Permabond TA4631A

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Predicted no-effect concentration - PN	NOIC ACID, REACTION PRODUCTS WIT	
Normal value in fresh water	20	0,008 mg/l
		, <b>0</b>
Normal value for fresh water sediment		383 mg/kg/d
Normal value for marine water sedime	nt	38,3 mg/kg/d
VND = hazard identified but no DNEL/PNE hazard ; MED = medium hazard ; HIC		ted ; NPI = no hazard identified ; LOW = low
. Exposure controls		
		protective equipment, make sure that the workplace is
well aired through effective local aspiration		a fam a hair a
	nent, ask your chemical substance supplie	
	E marked, showing that it complies with ap	plicable standards.
Provide an emergency shower with face a	nd eye wash station.	
HAND PROTECTION		
Protect hands with category III work glove	S.	
		d EN 374): compatibility, degradation, failure time and
permeability.	5 5 ······ ( )tairiadi	, , , ,, <u>,</u>
	nents should be checked before use as it	can be unpredictable. The gloves' wear time depends
on the duration and type of use.	gente enouid de enconed delore dee, de ll'	san se anpredictable. The gives wear time depends
SKIN PROTECTION		
	a veralle and eafaty factures (as a Damite	tion 2016/425 and standard EN ICO 20244) Marth
		tion 2016/425 and standard EN ISO 20344). Wash
body with soap and water after removing p	protective clothing.	
EYE PROTECTION		
Wear airtight protective goggles (see stand	dard EN 166).	
RESPIRATORY PROTECTION		
If the threshold value (e.g. TLV-TWA) is ex	ceeded for the substance or one of the su	bstances present in the product, use a mask with a
		entration. (see standard EN 14387). In the presence of
		rosol sprays, fumes, mists, etc.) combined filters are
required.	Juses of vapours containing particulate (ac	
	ad if the technical measures adopted are n	at auitable for reatricting the worker's even aure to the
		ot suitable for restricting the worker's exposure to the
•	on provided by masks is in any case limited	
		orresponding TLV-TWA and in the case of an
emergency, wear open-circuit compressed	l air breathing apparatus (in compliance wi	th standard EN 137) or external air-intake breathing
apparatus (in compliance with standard El	N 138). For a correct choice of respiratory p	protection device, see standard EN 529.
ENVIRONMENTAL EXPOSURE CONTRO	DLS	
The emissions generated by manufacturin	a processes, including those generated by	ventilation equipment, should be checked to ensure
compliance with environmental standards.		
•	tely disposed of with waste water or by dur	nning in waterways
r roduct residues must not be muscrimina	tery disposed of with waste water of by du	nping in waterways.
CTION 9. Physical and chemical proper	ties	
CTION 9. Physical and chemical proper	ties	
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. Information on basic physical and che Properties Appearance Colour Odour Melting point / freezing point Initial boiling point Flammability Lower explosive limit Upper explosive limit Flash point Auto-ignition temperature Decomposition temperature pH	emical properties Value paste colourless characteristic not available not available not available not available s 100 °C not available not available not available not available	Reason for missing data:substance/mixture is
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not available

not available

not available

1



Permabond TA4631A

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

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.

## 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.

# 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: Not classified (no significant component) Not classified (no significant component) ΕN

Revision nr.1 Dated 31/03/2023

First compilation

Printed on 31/03/2023 Page n. 6 / 11



Permabond TA4631A

Revision nr.1 Dated 31/03/2023 First compilation Printed on 31/03/2023 Page n. 7 / 11

SECTION 11. Toxicological information/>>	
ATE (Dermal) of the mixture:	Not classified (no significant component)
TETRAHYDROFURFURYL METHACRYLATE LD50 (Oral):	3945 mg/kg
P-TOLUENESULPHONYL CHLORIDE LD50 (Oral):	4680 mg/kg
2-PROPENOIC ACID, REACTION PRODUCTS WI LD50 (Dermal): LD50 (Oral):	TH DIPENTAERYTHRITOL > 2000 mg/kg > 2000 mg/kg
SKIN CORROSION / IRRITATION	
Does not meet the classification criteria for this hazard class	s
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	s
CARCINOGENICITY	
Does not meet the classification criteria for this hazard class	s
REPRODUCTIVE TOXICITY	
May damage the unborn child	
STOT - SINGLE EXPOSURE	
Does not meet the classification criteria for this hazard class	s
STOT - REPEATED EXPOSURE	
Does not meet the classification criteria for this hazard class	s
ASPIRATION HAZARD	
Does not meet the classification criteria for this hazard class	s
11.2. Information on other hazards	
Based on the available data, the product does not contain s disruptors with human health effects under evaluation.	substances listed in the main European lists of potential or suspected endocrine
SECTION 12. Ecological information	
This product is dangerous for the environment and the aqua	atic organisms. In the long term, it have negative effects on aquatic environment.
12.1. Toxicity	
	34,7 mg/l/96h

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

34,7 mg/l/96h 69 mg/l/48h > 100 mg/l/72h 9,4 mg/l 37,2 mg/l



Permabond TA4631A

SECTION 12. Ecological information ... / >>

P-TOLUENESULPHONYL CHLORIDE	
LC50 - for Fish	> 100 mg/l/96h
EC50 - for Crustacea	> 334 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	2,6 mg/l

 2-PROPENOIC ACID, REACTION PRODUCTS WITH DIPENTAERYTHRITOL

 LC50 - for Fish
 8,9 mg/l/96h

 EC50 - for Crustacea
 18 mg/l/48h

# 12.2. Persistence and degradability

TETRAHYDROFURFURYL METHACRYLATE NOT rapidly degradable

P-TOLUENESULPHONYL CHLORIDE Rapidly degradable

# 12.3. Bioaccumulative potential

TETRAHYDROFURFURYL METHACRYLATE Partition coefficient: n-octanol/water

1,38 Log Kow

# 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. 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

EN

Revision nr.1 Dated 31/03/2023

First compilation

Printed on 31/03/2023 Page n. 8 / 11 Permabond TA4631A

Revision nr.1 Dated 31/03/2023 First compilation Printed on 31/03/2023 Page n. 9 / 11

# SECTION 14. Transport information ... / >>

# 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:

3

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

None

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)
None

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

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.



Permabond TA4631A

Revision nr.1 Dated 31/03/2023 First compilation Printed on 31/03/2023 Page n. 10 / 11

# **SECTION 16. Other information**

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

Met. Corr. 1 Repr. 1B Eye Dam. 1 Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A Aquatic Chronic 3 H290 H360D H318 H319 H315 H317	Substance or mixture corrosive to metals, category 1 Reproductive toxicity, category 1B Serious eye damage, category 1 Eye irritation, category 2 Skin sensitization, category 2 Skin sensitization, category 1 Skin sensitization, category 1A Hazardous to the aquatic environment, chronic toxicity, category 3 May be corrosive to metals. May damage the unborn child. Causes serious eye damage. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction.
	, <u> </u>

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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Revision nr.1 Dated 31/03/2023 First compilation Printed on 31/03/2023 Page n. 11 / 11

# 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
- 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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