Permabor		Engine	ering Adhesives	Dated 02/04/2024	EN			
Permapond Engineering Adhesives	Perm	abon	d UV675	First compilation Printed on 02/04/2024 Page n. 1 / 15				
		Safet	y Data Sheet					
	According to Annex II to F	REACH - Regu	lation (EU) 2020/878 and to Ann	ex II to UK REACH				
	ation of the substa	ince/mixtu	ire and of the company	y/undertaking				
1.1. Product identifier								
Product name	P	ermabond UV	/675					
1.2. Relevant identified uses	of the substance or mixt	ure and uses	advised against					
Intended use	Α	Adhesive						
Identified Uses		Industrial Professional		Consumer				
Use	N		$\checkmark$	-				
1.3. Details of the supplier o	f the safety data sheet							
Name		Permabond Engineering Adhesives						
Full address District and Country		Niederkasseler Lohweg 18 40547 Düsseldorf						
	т	Germany Tel. +44 (0)1962 711 661						
e-mail address of the comp	etent person							
responsible for the Safety [	Data Sheet Ir	info.europe@permabond.com						
Supplier:			gineering Adhesives Ltd					
		-	Colden Common, ampshire SO21 1WP, UK					
		tel: +44 (0)1962 711 661						
	n	nall: Info.euro	ope@permabond.com					
1.4. Emergency telephone n	umber							
For urgent inquiries refer to	+	44 (0)1962 71	1 661(8.00 am-5.00 pm Mon	ı-Fri)				
			K: +(44)-870-8200418					
			eland: +(353)-19014670 ustralia: +(61)-290372994					
		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:		
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, acute toxicity, category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, chronic toxicity, category 1	H410	Very toxic to aquatic life with long lasting effects.



Permabond UV675

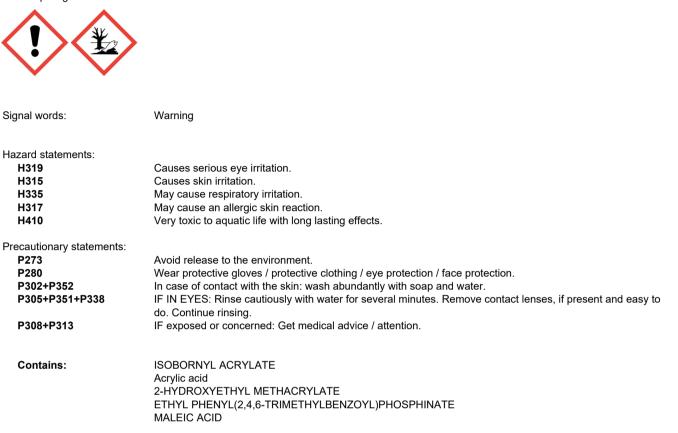
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## SECTION 2. Hazards identification ... / >>

#### 2.2. Label elements

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

Hazard pictograms:



The product is classified both in acute and long-term aquatic hazard categories: it is possible to use only hazard statement H410 on the label.

#### 2.3. Other hazards

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

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

## **SECTION 3. Composition/information on ingredients**

# 3.2. Mixtures

3.2. Mixtures			
Contains:			
Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
ISOBORNYL	ACRYLATE		
INDEX		30 ≤ x < 60	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC	227-561-6		
CAS	5888-33-5		
REACH Reg.	01-2119957862-25-2	XXXX	
2-HYDROXYE	THYL METHACRYLA	ATE	
INDEX		10 ≤ x < 30	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317
EC	212-782-2		
CAS	868-77-9		
REACH Reg.	01-2119490169-29-2	XXXX	



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# Permabond UV675

# SECTION 3. Composition/information on ingredients .../>>

Acrylic acid	607-061-00-8	2.5 ≤ x < 3	Flam. Lig. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332
		2,0 - X + 0	Skin Corr. 1A H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411, Classification note according to Annex
			VI to the CLP Regulation: D
EC	201-177-9		STOT SE 3 H335: ≥ 1%
CAS	79-10-7		LD50 Oral: 1500 mg/kg, ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l
REACH Reg.	01-2119452449-3	31	
ETHYL PHEN	IYL(2,4,6-TRIMETH	IYLBENZOYL)PHOS	PHINATE
INDEX		1 ≤ x < 2,5	Skin Sens. 1B H317, Aquatic Chronic 2 H411
EC	282-810-6		
CAS	84434-11-7		
REACH Reg.	01-2119987994-	10-XXXX	
келсп кеу.			
MALEIC ACIE	2		
0	0	0,1 ≤ x < 1	Acute Tox. 4 H302, Acute Tox. 4 H312, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1 H317
MALEIC AČIE INDEX	<b>)</b> 203-742-5	0,1 ≤ x < 1	
MALEIC AČIE	-	0,1 ≤ x < 1	STOT SE 3 H335, Skin Sens. 1 H317

# **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

#### Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

#### 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

If symptoms occur, whether acute or delayed, consult a doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

# 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.

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#### SECTION 5. Firefighting measures ... / >>

#### 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

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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. 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 cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. 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

Regulatory references:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17
CZE	Česká Republika	Януари 2020г.) NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci

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

		MALEIC ACID
	TLV-ACGIH	2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. ACGIH 2023
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
JVN	GIOVETISKU	nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
SVK	Romania Slovensko	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006 NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa
ROU	România	rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy Hotórórca pr. 53/2021 poptru modificarca botórórii guyerpului pr. 1.218/2006, procum si poptru
POL	Polska	agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające
PRT	Portugal	eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3,
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
		ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai" patvirtinimo
LTU	Lietuva	Decreto Legislativo 9 Aprile 2008, n.81 Jsakymas dėl lietuvos higienos normos hn 23:2011 "cheminių medžiagų profesinio poveikio
ITA	Italia	na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
		οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ''σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία''»
GRC	Ελλάδα	ΠΑΕSOVARDSMINISTERIETS ΡΟΒΕΙΚΑΠΟΙΝΕΚ 2020.25 Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 21.12.2022, 14]
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
		Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58

Predicted no-effect con	centration	- PNEC						
Normal value in fresh	water					1	mg/l	
Normal value in marin	ne water					1	mg/l	
Normal value for fresh	n water sedii	ment				334	mg/kg	
Normal value for mari	ne water se	diment				334	mg/kg	
Normal value for mari	ne water, in	termittent release	e			4281	mg/l	
Normal value of STP	microorgani	sms				44,6	mg/l	
Normal value for the t	errestrial co	mpartment				42	mg/kg	
Health - Derived no-effe	ect level - D	NEL / DMEL						
	Effects or	o consumers			Effects on w	orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation					3	3	3	3
					mg/m3	mg/m3	mg/m3	mg/m3

@EPY 11.7.0 - SDS 1004.14



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

	1		2-Π	DROATE	THYL METHACI	TLATE			
reshold Limit Va							Densela / Ob	<b>e</b>	
Туре	Country	TWA/8h			STEL/15min		Remarks / Observa	ations	
<b>T</b> 1 \ /	NOD	mg/m3	ppm		-	ppm			
TLV	NOR	11	2		11	2			
redicted no-effect									
Normal value in f						0,482	mg/l		
Normal value in r							0,0482	mg/l	
Normal value for							3,79	mg/kg	
Normal value for							3,79	mg/kg	
Normal value for			release				1	mg/l	
Normal value of							10	mg/l	
Normal value for							0,476	mg/kg	
lealth - Derived no									
		cts on consur	ners			Effects	on workers		
Route of exposur	e Acu		-	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l syste	emic	local	systemic	local	systemic	local	systemic
Oral					0.83				0.83
					mg/kg/d				mg/kg/d
Inhalation					2.9				4.9
					mg/m3				mg/m3
Skin					0.83				1.3
					mg/kg/d				mg/kg/d
				ISOBOF	RNYL ACRYLAT	ſE			
redicted no-effect									
Normal value in f							0,00092	mg/l	
Normal value in r	narine wate	er					0,00009	mg/l	
N	<b>,</b> , ,						2		
Normal value for							0,145	mg/kg	
Normal value for							0,0145	mg/kg	
Normal value of							2	mg/l	
Normal value for							0,0285	mg/kg	
lealth - Derived no		•••••							
		cts on consur	ners				on workers		
Route of exposur	e Acu		-	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l syste	emic	local	systemic	local	systemic	local	systemic
Oral					0.83				
					mg/kg bw/c	ł			
Skin					0.83				1.39
					mg/kg bw/c	4			mg/kg
					iliy/ky bw/c	1			шу/ку

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EN



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

reshold Limit V	/alue			70	ylic acid					
Туре	Country	TWA/8h		ST	EL/15min		Remar	ks / Observa	ations	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	e e u i i i j	mg/m3	ppm		g/m3	ppm				
TLV	BGR	29	10	5		20		STEL: 1'		
TLV	CZE	29	9,686	5		19,706		NPK-P= 1	min	
AGW	DEU	30	10		(C)	10 (C)				
MAK	DEU	30	10	3		10				
TLV	DNK			5,		2	SKIN	E		
TLV	EST	29	10	4		15	•••••			
VLEP	FRA	29	10	5		20				
HTP	FIN	6	2		(C)	15 (C)				
TLV	GRC	29	10	5		20		STEL: 1'		
AK	HUN	29		5				CK: 1 min		
GVI/KGVI	HRV	29	10	5		20		KGVI: 1 m	'n	
VLEP	ITA	29	10	5		20	SKIN	STEL: 1 m		
RD	LTU	29	10		(C)	20 (C)	ONIN	OTEL. TH		
RV	LVA	5	1,7	5		20 (0)		STEL: 1mi	n	
TLV	NOR	29	1,7	5		20		UTLL. IIII		
TGG	NLD	29	10	5		20		TGG: 1 mi	n	
VLE	PRT	29	10	5		20		STEL: 1 m		
NDS/NDSCh	POL	10	10	29		20	SKIN	STEL. TH		
TLV	ROU	29	10	29		20	SKIN	STEL: 1'		
NPEL	SVK	29	10	5		20		NPEL: 1		
WEL	GBR	29	10	5		20		STEL: 1-m	Inute	
OEL TLV-ACGIH	EU	29 6	10 2	5	9	20	SKIN	STEL: 1'		
Normal value fo Normal value fo Normal value o Normal value fo <b>alth - Derived r</b>	or marine wa f STP microc or the terrest no-effect lev	ter sediment organisms rial compartmer	EL			Effects of	on worke	0,0236 0,00236 0,9 1	mg/kg mg/kg mg/l mg/kg	
Route of expos	ure Acu	ite Acute		Chronic	Chronic	Acute		Acute	Chronic	Chronic
	loca	al systen	nic	local	systemic	local		systemic	local	systemic
Inhalation						30			30	
						mg/m3			mg/m3	
Skin						1			1	
						mg/cm2			mg/cm2	
redicted no-effe Normal value ir		ation - PNEC	PHENYL(	(2,4,6-TRIME	THYLBENZ	OYL)PHOSP	PHINATE	1	mg/l	
Normal value in	n marine wat	er						0,0001	mg/l	
Normal value for	or fresh wate	r sediment						0,24	mg/kg/d	
Normal value for	or marine wa	ter sediment						0,024	mg/kg/d	
Normal value for	or water, inte	rmittent release						0,0353	mg/l	
Normal value for alth - Derived r	or the terrest	rial compartmer	nt					0,047	mg/kg/d	
	Effe	ects on consume	ers			Effects of	on worke			
Route of expos		ite Acute		Chronic	Chronic	Acuto		Acuto	Chronic	Chronic

Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation								5,88
								mg/m3
Skin								1,7
								mg/kg
								bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction. 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



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#### **SECTION 8. Exposure controls/personal protection** 1>>

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, permeability time.

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 ISO 16321). RESPIRATORY PROTECTION

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. 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).

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			
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 missin	g data:sub	stance/mixture is
			non-soluble	(in	water)
Kinematic viscosity		not available			
Dynamic viscosity		~ 650 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.

#### Acrylic acid

Keep away from: oxidising agents. Maintaining a temperature of less than 13°C/55°F. May polymerise if exposed to: heat.

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

#### Acrylic acid

Risk of explosion on contact with: oxidising agents,oxygen,peroxides.May polymerise on contact with: alkaline hydroxides,amines,ammonia,sulphuric acid.Forms explosive mixtures with: hot air.

#### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

#### Acrylic acid

Avoid exposure to: light, sources of heat, naked flames. Avoid contact with: oxygen.

## 10.5. Incompatible materials

Acrylic acid

Incompatible with: peroxides,oxidising substances,strong acids,strong bases,amines,iron salts,oleum,chlorosulphuric acid. **10.6. Hazardous decomposition products** 

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

# **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 - vapours) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture: > 20 mg/l >2000 mg/kg >2000 mg/kg



Permabond Engineering Adhesives

Permabond UV675

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#### SECTION 11. Toxicological information ... / >>

ATE (Dermal):       1100 mg/kg estimate from table 3.1.2 of Annex 1 of the CLP (Figure used for calculation of the acute toxicity estimate of the mixture) 2870 mg/kg         LCS0 (Dran):       2.072 mg/kg         2.4YD ROXYETHYL METHACRYLATE LDS0 (Dran):       > 5000 mg/kg         LDS0 (Dran):       > 3000 mg/kg         LDS0 (Dran):       > 3000 mg/kg         LDS0 (Dran):       > 4330 mg/kg         LDS0 (Dran):       > 2000 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)         LDS0 (Dran):       > 2000 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)         LDS0 (Dran):       > 5.1 mg/kh Rat         LCS0 (Inhalation vapours):       > 5.1 mg/kh Rat         LCS0 (Dran):       > 2000 mg/kg         LDS0 (Dran):       > 2000 mg/kg         LDS0 (Dran):       > 2000 mg/kg         LCS0 (Dran):       > 5.1 mg/kh Rat         LCS0 (Dran):       > 2000 mg/kg         LDS0 (D		MALEIC ACID	
LBS0 (Crait):       2870 mg/kg         LCS0 (Inhiadion missiopowders):       > 0,72 mg/k1         2.4YDROXYETHYL METHACRYLATE       > 5000 mg/kg         LDS0 (Dermai):       > 5000 mg/kg         LDS0 (Oral):       > 5000 mg/kg         LDS0 (Oral):       > 3000 mg/kg         LDS0 (Oral):       > 3000 mg/kg         Arryle add       - 2000 mg/kg Rabbit         LDS0 (Oral):       > 4350 mg/kg         Arryle add       - 2000 mg/kg Rabbit         LDS0 (Oral):       - 2000 mg/kg Rabbit         ATE (Dermai):       1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP         LDS0 (Oral):       - 2000 mg/kg Rabbit         LCS0 (Inhiabition vapours):       - 1300 mg/kg         LDS0 (Oral):       - 2000 mg/kg         LCS0 (Inhiabition vapours):       - 1000 mg/kg         LDS0 (Oral):       - 2000 mg/kg         LDS0 (Oral):       - 2000 mg/kg         CS00 (Fall):       - 2000 mg/kg         SKIN CORROSION / IRRITATION       - 2000 mg/kg         Causes existin irritation       - 2000 mg/kg         SERIOLS EYE DAMAGE / IRRITATION       - 2000 mg/kg         Causes existing for the skin       - 2000 mg/kg         GERM CELL MUTAGENICITY_       - 0000 mg/kg         Does			
2-HYDROXYETHYL METHACRYLATE LDS0 (Demai):       > 5000 mg/kg         150BORRNIL ACRYLATE LDS0 (Oral):       > 3000 mg/kg         150BORRNIL ACRYLATE LDS0 (Oral):       > 3000 mg/kg         Acylic acid LDS0 (Oral):       > 2000 mg/kg Aabbit         ATE (Demail):       > 2000 mg/kg Aabbit         ATE (Demail):       > 100 mg/kg autimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)         LDS0 (Oral):       100 mg/kg fauthet for the acute toxicity estimate of the mixture)         LDS0 (Oral):       > 5000 mg/kg         ATE (Inhalation vapours):       - 110 mg/kg fauthet for table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)         ETHYL PHENYL(2.4.6-TRIMETHYLBENZOYL)PHOSPHINATE LDS0 (Oral):       > 2000 mg/kg         LDS0 (Oral):       > 2000 mg/kg         Stimutors and the acute toxicity estimate of the mixture)       2000 mg/kg         Causes skin initiation       Stimutors         Strinton       Stimutors         Causes serious ope inflation       RESPIRATORY OR SKIN SENSITISATION_         Causes serious ope inflation       Stimutors         RESPIRATORY OR SKIN SENSITISATION_       Samatise inflation oriteria for this hazard class         CARCINOGENOITY       Does not meet the classification oriteria for this hazard class         STOT			2870 mg/kg
LDS0 (Qena):       > 5000 mg/kg         LDS0 (Qena):       > 3000 mg/kg         Acylic acid       LDS0 (Qena):         Arge (Demma):       1100 mg/kg Rabbit         LDS0 (Qena):       1500 mg/kg         LDS0 (Qena):       2000 mg/kg         LDS0 (Qena):       > 50.1 mg/kh Rat         ATE (Inhelation vapours):       > 5.1 mg/kh Rat         LDS0 (Qena):       > 5000 mg/kg         Causes skin irritation       SERIOUS EVE DAMAGE / IRRITATION_         Causes skin irritation       Causes serious eye irritation         RESPIRATORY OR SINI SENSITISATION_       Sensitismig for the skin         GERCOLY EV DAMAGE / IRRITATION_       Causes serious eye irritation         RESPIGATORY OR SINI SENSITISATION_       Sensitismig for the skin         GERCOLY TOXICITY_       Does not meet the classification oriteria for this hazard class         STOT - SINGLE EXPOSURE_       May cause respiratory i		LC50 (Inhalation mists/powders):	> 0,72 mg/l/1h
LDS0 (Oral): > 5000 mg/kg LDS0 (Oral): > 3000 mg/kg LDS0 (Oral): > 3000 mg/kg LDS0 (Oral): > 2000 mg/kg Rabbit LDS0 (Oral): > 5000 mg/kg Rabbit LDS0 (Oral): > 5000 mg/kg Rabbit LDS0 (Oral): > 51 mg/kh Rat ATE (Inhalation vapours): > 51 mg/kh Rat ATE (Inhalation vapours): > 51 mg/kh Rat ATE (Inhalation vapours): > 2000 mg/kg LDS0 (Oral): > 5000 mg/kg SKIN CORROSION / IRRITATION_ Causes skin irritation SERIOUS EYE DAMAGE / IRRITATION_ Causes serious eye irritation GERM CELL MUTAGENICITY Does not meet the classification ortheria for this hazard class STOT - SINGLE EXPOSURE_ May cause respiratory irritation STOT - REPEATED EXPOSURE_ May cause respiratory irritation STOT - REPEATED EXPOSURE_ May cause respiratory irritation STOT - REPEATED EXPOSURE_ Does not meet the classification ortheria for this hazard class STOT - SINGLE EXPOSURE_ May cause respiratory irritation STOT - REPEATED EXPOSURE_ Does not meet the classification ortheria for this hazard class STOT - SINGLE EXPOSURE_ May cause respiratory irritation STOT - REPEATED EXPOSURE_ Does not meet the classification ortheria for this hazard class STOT - SINGLE EXPOSURE_ May cause respiratory irritation STOT - REPEATED EXPOSURE_ Does not meet the classification ortheria for this hazard class STOT - SINGLE EXPOSURE_ Does not meet the classification ortheria for this hazard class STOT - REPEATED EXPOSURE_ Does not meet the classification ortheria for this hazard class STOT - REPEATED EXPOSURE_ Does not meet the classification ortheria for this hazard class STOT - REPEATED EXPOSURE_ Does not meet the classification ortheria for this hazard class STOT - REPEATED EXPOSURE_ Does not meet the classification ortheria for this hazard class STOT - REPEATED EXPOSURE_ Does not meet the classification ortheria for this hazard class STOT - REPEATED EXPOSURE_ Does not meet the classification ortheria for this hazard class STOT			> 5000 ma/ka
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SERIOUS EYE DAMAGE / IRRITATION         Causes serious eye irritation         RESPIRATORY OR SKIN SENSITISATION         Sensitising for the skin         GERM CELL MUTAGENICITY         Does not meet the classification criteria for this hazard class         CARCINOGENICITY         Does not meet the classification criteria for this hazard class         REPRODUCTIVE TOXICITY         Does not meet the classification criteria for this hazard class         STOT - SINGLE EXPOSURE         May cause respiratory irritation         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         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.	SKIN CO	DRROSION / IRRITATION	
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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.	ASPIRA	TION HAZARD	
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.	Does no	t meet the classification criteria for this hazard class	
disruptors with human health effects under evaluation.	11.2. Inform	nation on other hazards	
@EPY 11.7.0 - S			ubstances listed in the main European lists of potential or suspected endocrine
			@EPY 11.7.0 - SI

ΕN



# Permabond UV675

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# **SECTION 12. Ecological information**

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it has negative effects on the aquatic environment.

#### 12.1. Toxicity

MALEIC ACID LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	75 mg/l/96h 42,81 mg/l/48h 74,32 mg/l/72h	
2-HYDROXYETHYL METHACRYLATE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	> 100 mg/l/96h 380 mg/l/48h 836 mg/l/72h	
ISOBORNYL ACRYLATE LC50 - for Fish EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea Chronic NOEC for Algae / Aquatic Plants	0,704 mg/l/96h 1,98 mg/l/72h 0,431 mg/l 0,092 mg/l 0,405 mg/l	
Acrylic acid LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	315 mg/l/96h Leuciscus idus melanotus 765 mg/l/48h Daphnia magna 118 mg/l/72h Chlorococcales	
ETHYL PHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPH LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish <b>12.2. Persistence and degradability</b>	HINATE 1,89 mg/l/96h 2,26 mg/l/48h 1,01 mg/l/72h > 1,29 mg/l	
2-HYDROXYETHYL METHACRYLATE Rapidly degradable		
ISOBORNYL ACRYLATE NOT rapidly degradable		
Acrylic acid Solubility in water Rapidly degradable	1000000 mg/l	
ETHYL PHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINATE NOT rapidly degradable		
12.3. Bioaccumulative potential		
Acrylic acid Partition coefficient: n-octanol/water BCF	0,46 0,491	
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%.		

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#### ... / >> **SECTION 12. Ecological information**

#### 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.

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

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

#### 14.2. UN proper shipping name

ADR / RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISOBORNYL ACRYLATE; Acrylic acid)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISOBORNYL ACRYLATE; Acrylic acid)
IATA:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISOBORNYL ACRYLATE; Acrylic acid)

#### 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: ш



# 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 It	Tunnel restriction code: (-)
	Special provision: 274, 335, 375, 601		
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 It	
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: E1 Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 Product Point 3 - 40 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

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:

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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- 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
- vPvM: Very persistent and very mobile
- 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)



# SECTION 16. Other information ... / >>

- 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)
- 23. Delegated Regulation (UE) 2023/707
- 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
- 24. Delegated Regulation (UE) 2023/1435 (XX 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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