

Permabond HM165

Revision nr.2 Dated 13/02/2024 Printed on 13/02/2024 Page n. 1 / 14

Replaced revision:1 (Dated 19/01/2023)

Safety Data Sheet

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

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Permabond HM165

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

Intended use Adhesive

1.3. Details of the supplier of the safety data sheet

Name Permabond Engineering Adhesives

Full address Niederkasseler Lohweg 18
District and Country 40547 Düsseldorf

Germany

Tel. +44 (0)1962 711 661

e-mail address of the competent person

responsible for the Safety Data Sheet info.europe@permabond.com

Supplier: Permabond Engineering Adhesives Ltd

Wessex Way, Colden Common,

Winchester, Hampshire SO21 1WP, UK

tel: +44 (0)1962 711 661

mail: info.europe@permabond.com

1.4. Emergency telephone number

For urgent inquiries refer to +44 (0)1962 711 661 (8.00 am-5.00 pm Mon-Fri)

CHEMTREC UK: +(44)-870-8200418 CHEMTREC Ireland: +(353)-19014670 CHEMTREC Australia: +(61)-290372994 CHEMTREC New Zealand: +(64)-98010034

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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

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

Hazard classification and indication:

Skin 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

2.2. Label elements

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

Hazard pictograms:



ΕN



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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:

P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P302+P352 In case of contact with the skin: wash abundantly with soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

Contains: 2-PHENOXYETHYL METHACRYLATE

N,N-m-PHENYLENEDIMALEIMIDE CUMYL HYDROPEROXIDE

2.3. Other hazards

This product contains N,N-m-PHENYLENEDIMALEIMIDE which, in powder form, is classified as very toxic by inhalation. When present in solution, as in this case, such exposure can be excluded under normal working conditions and so this product is not labelled as such. However, if during use, there is a possibility that an aerosol mist may be formed then appropriate measures must be taken to exclude exposure by inhalation.

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

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

N,N-m-PHENYLENEDIMALEIMIDE

INDEX 15,005 ≤ x < 25 Acute Tox. 2 H330, Acute Tox. 4 H302, Skin Sens. 1A H317, Aquatic Chronic

2 H411

EC 221-112-8 ATE Oral: 500 mg/kg, LC50 Inhalation mists/powders: >0,089 mg/l/4h

CAS 3006-93-7 REACH Reg. 01-2120756106-57-003

2-PHENOXYETHYL METHACRYLATE

INDEX 2,5 ≤ x < 3 Repr. 2 H361d, Skin Sens. 1A H317, Aquatic Chronic 2 H411

EC 234-201-1 CAS 10595-06-9

REACH Reg. 01-2120752383-55-XXXX WHITE MINERAL OIL (PETROLEUM)

INDEX $1 \le x < 5$ Asp. Tox. 1 H304

EC 232-455-8 CAS 8042-47-5

REACH Reg. 01-2119487078-27-XXXX

CUMYL HYDROPEROXIDE

EC

INDEX 617-002-00-8 0,1 ≤ x < 1 Org. Perox E H242, Acute Tox. 3 H331, Acute Tox. 4 H302, Acute Tox. 4

H312, STOT RE 2 H373, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3

H335, Aquatic Chronic 2 H411

Skin Corr. 1B H314: ≥ 10%, Skin Irrit. 2 H315: ≥ 3% - < 10%, Eye Dam. 1 H318: ≥ 3% - < 10%, Eye Irrit. 2 H319: ≥ 1% - < 3%, STOT SE 3 H335: ≥ 1%

LD50 Oral: 382 mg/kg, LD50 Dermal: 1400 mg/kg, ATE Inhalation

mists/powders: 0,501 mg/l

REACH Reg. 01-2119475796-19-XXXX

201-254-7

80-15-9

EPY 11.7.0 - SDS 1004.14



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SECTION 3. Composition/information on ingredients

CUMENE

INDEX 601-024-00-X 0 < x < 0,1 Flam. Liq. 3 H226, Carc. 1B H350, Asp. Tox. 1 H304, STOT SE 3 H335,

Aquatic Chronic 2 H411

EC 202-704-5 CAS 98-82-8

REACH Reg. 01-2119473983-24-XXXX

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

CUMYL HYDROPEROXIDE Specific Conc. Limits H335: C<10%

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. 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.

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



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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

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.

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
		Януари 2020г.)
CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb.,
		kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur
		Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2023
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse
		nõuded ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 21.12.2022, 14]
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849
		du 28 décembre 2021
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH
		HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των
		οδηγιών 2017/2398/EE, 2019/130/EE και 2019/983/EE «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"»



Skin

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SECTION 8. Exposure controls/personal protection

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
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LTU	Lietuva	Jsakymas dėl lietuvos higienos normos hn 23:2011 "cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai" patvirtinimo
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar kīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
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
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os 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
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa 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
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733; 20.10.2023 / 32345.
GBR EU	United Kingdom OEL EU	EH40/2005 Workplace exposure limits (Fourth Edition 2020) 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
	TLV-ACGIH	2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. ACGIH 2023

		2	-PHENOXYETH	YL METHACE	YLATE			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh water 0,0142 mg/l								
Normal value in mari	ne water					0,00142	mg/l	
Normal value for fresh water sediment 0,665 mg/kg/d								
Normal value for marine water sediment 0,067 mg/kg/d								
Normal value for water	er, intermitte	ent release				0,012	mg/l	
Normal value of STP	microorgan	isms				1,77	mg/l	
Normal value for the	terrestrial co	mpartment				0,125	mg/kg/d	
Health - Derived no-eff	ect level - D	NEL / DMEL						
	Effects o	n consumers			Effects on	workers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
·	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation		•		•		•		12

mg/m3

3.5 mg/kg/d



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		,	WHITE MINERA	I OII (BETPOI	ELIM			
lealth - Derived no-eff	ect level - D		WHITE WIINERA	L OIL (FETROI	-EOW)			
	Effects or	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				25				
				mg/kg bw/d				
Inhalation				34.78				164.56
				mg/m3				mg/m3
Skin				93.02				217.05
				mg/kg bw/d				mg/kg
								bw/d

				// - 11 - 511-11 -1				
			N,N-m-PHENY	LENEDIMALEI	MIDE			
Predicted no-effect co		- PNEC						
Normal value in fresh	ı water					0,01	mg/l	
Normal value in mari	ne water					0,001	mg/l	
Normal value for fres	h water sed	iment				0,346	mg/kg	
Normal value for mar	ine water se	ediment				0,035	mg/kg	
Normal value of STP	microorgan	isms				0,051	mg/l	
Normal value for the	terrestrial co	ompartment				0,063	mg/kg	
lealth - Derived no-eff	ect level - D	ONEL / DMEL						
	Effects o	n consumers			Effects on w	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		•		0.025		•		0.025
								mg/kg
								bw/d
Inhalation				0.043				0.176
				mg/m3				mg/m3
Skin				0.025				0.05
				mg/kg bw/d				mg/kg
								bw/d

			CUMYL HY	/DROPEROXII	DE			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,0031	mg/l	
Normal value in marii	ne water					0,00031	mg/l	
Normal value for fres	h water sedi	iment				0,023	mg/kg	
Normal value for mar						0,0023	mg/kg	
Normal value for water	er, intermitte	ent release				0,031	mg/l	
Normal value of STP	microorgan	isms				0,35	mg/l	
Normal value for the	terrestrial co	mpartment				0,0029	mg/kg	
Health - Derived no-eff	ect level - D	NEL / DMEL						
	Effects of	n consumers			Effects on	workers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation								6 mg/m3



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reshold Limit V	/aluo				CUMENE					
Type	Country	/ TWA/8h			STEL/15min		Remar	ks / Observa	ations	
1) 0	Country	mg/m3	ppm		mg/m3	ppm	rtomai	NO / ODGOIVE	1110110	
TLV	BGR	100	20		250	50	SKIN			
TLV	CZE	100	20		250	50	SKIN			
AGW	DEU	50	10		200	40	SKIN			
TLV	DNK	100	20				SKIN	E		
VLA	ESP	50	10		250	50	SKIN			
TLV	EST	100	20		250	50	SKIN			
VLEP	FRA	100	20		250	50	SKIN			
HTP	FIN	50	10		250	50	SKIN			
TLV	GRC	245	50		370	75				
AK	HUN	50			250		SKIN			
GVI/KGVI	HRV	50	10		250	50	SKIN			
VLEP	ITA	100	20		250	50	SKIN			
RD	LTU	50	10		170	35	SKIN			
RV	LVA	100	20		250	50	SKIN			
TLV	NOR	100	20		250	50	SKIN			
TGG	NLD	100			250		SKIN			
VLE	PRT	50	10		250	50	INHAL			
VLE	PRT	50	10		250	50	SKIN			
NDS/NDSCh	POL	50			250		SKIN			
TLV	ROU	50	10		250	50	SKIN			
NGV/KGV	SWE	50	10		250	50	SKIN			
NPEL	SVK	50	10		250	50	SKIN			
MV	SVN	100	20		250	50	SKIN			
ESD	TUR	100	20		250	50	SKIN			
WEL	GBR	125	25		250	50	SKIN			
OEL	EU	50	10		250	50	SKIN			
TLV-ACGIH			5							
redicted no-effe	ct concei	ntration - PNEC	•							
Normal value in	resh wa	ter						0,035	mg/l	
Normal value in	marine w	/ater						0,004	mg/l	
Normal value for	or fresh wa	ater sediment						3,22	mg/kg/d	
Normal value for	or marine	water sediment						0,322	mg/kg/d	
Normal value of	f STP mic	roorganisms						200	mg/l	
Normal value for	or the terre	estrial compartn	nent					0,624	mg/kg/d	
ealth - Derived r	no-effect	level - DNEL / I	OMEL							
	E	ffects on consu	mers			Ef	fects on worke	rs		
Route of expos	ure A	Acute Acu	ite	Chronic	Chronic	Ac	cute	Acute	Chronic	Chronic
	le	ocal sys	temic	local	systemic	loc	cal	systemic	local	systemic
Oral					5					
					mg/kg bw	/d				
Inhalation					16,6				250	100
					mg/m3				mg/m3	mg/m3
Skin					1,2					15,4
					mg/kg bw	/d				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

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

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





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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	viscous	liquid			
Colour	green				
Odour	characte	eristic			
Melting point / freezing point	not avai	lable			
Initial boiling point	not avai	lable			
Flammability	not avai	lable			
Lower explosive limit	not avai	lable			
Upper explosive limit	not avai	lable			
Flash point	> 100	°C			
Auto-ignition temperature	not avai	lable			
Decomposition temperature	not avai	lable			
рН	not avai	lable	Reason for missing	g data:substa	ance/mixture is
			non-soluble	(in	water)
Kinematic viscosity	not avai	lable			
Dynamic viscosity	0=000				
	~25000	mPa.s Thixo	Temperature: 23 °C	C	
Solubility	~25000 not avai		Temperature: 23 °	С	
Solubility Partition coefficient: n-octanol/water		lable	Temperature: 23 °	С	
,	not avai	lable lable	Temperature: 23 °0	C	
Partition coefficient: n-octanol/water	not avai	lable lable	Temperature: 23 °	С	
Partition coefficient: n-octanol/water Vapour pressure	not avai not avai not avai	lable lable lable	Temperature: 23 °0	С	
Partition coefficient: n-octanol/water Vapour pressure Density and/or relative density	not avai not avai not avai 1,1	lable lable lable lable	Temperature: 23 °0	С	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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



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SECTION 10. Stability and reactivity .../>

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

Protect from direct sunlight.

Avoid contact with acids and oxidizing agents.

10.5. Incompatible materials

See the reactivity section.

10.6. Hazardous decomposition products

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

SECTION 11. Toxicological information

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

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

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: 1,1 mg/l
ATE (Oral) of the mixture: 1718,39 mg/kg

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

WHITE MINERAL OIL (PETROLEUM)

 LD50 (Dermal):
 > 2000 mg/kg

 LD50 (Oral):
 > 5000 mg/kg

 LC50 (Inhalation mists/powders):
 > 5 mg/l/4h

N,N-m-PHENYLENEDIMALEIMIDE

LD50 (Dermal): > 300 mg/kg LD50 (Oral): > 300 mg/kg

ATE (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP

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

LC50 (Inhalation mists/powders): > 0,089 mg/l/4h

CUMYL HYDROPEROXIDE

 LD50 (Dermal):
 1400 mg/kg

 LD50 (Oral):
 382 mg/kg

 LC50 (Inhalation mists/powders):
 1,37 mg/l/4h

ATE (Inhalation mists/powders): 0,501 mg/l estimate from table 3.1.2 of Annex I of the CLP

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



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SECTION 11. Toxicological information/>>

CUMENE

LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): > 3160 mg/kg Rabbit 1400 mg/kg Rat > 17,6 mg/l/6h Rat

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

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 has negative effects on the aquatic environment.

12.1. Toxicity

2-PHENOXYETHYL METHACRYLATE

 LC50 - for Fish
 10 mg/l/96h

 EC50 - for Crustacea
 1,21 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 4,4 mg/l/72h

 EC10 for Algae / Aquatic Plants
 0,71 mg/l/72h

N,N-m-PHENYLENEDIMALEIMIDE

EC50 - for Crustacea 31,6 mg/l/48h EC50 - for Algae / Aquatic Plants 55,5 mg/l/72h

CUMYL HYDROPEROXIDE

LC50 - for Fish

EC50 - for Crustacea

18,84 mg/l/48h

EC50 - for Algae / Aquatic Plants

Chronic NOEC for Crustacea

9,15 mg/l

Chronic NOEC for Algae / Aquatic Plants

1 mg/l



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SECTION 12. Ecological information .../>>

12.2. Persistence and degradability

2-PHENOXYETHYL METHACRYLATE NOT rapidly degradable

CUMYL HYDROPEROXIDE NOT rapidly degradable

CUMENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

2-PHENOXYETHYL METHACRYLATE

Partition coefficient: n-octanol/water 3.137

CUMENE

Partition coefficient: n-octanol/water 3,55 BCF 94,69

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

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

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



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SECTION 14. Transport information

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:

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

Product

Point Contained substance

75 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 ≥ 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:

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 3: Severe 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:

Flam. Liq. 3 Flammable liquid, category 3 Org. Perox E Organic peroxide, type E Carc. 1B Carcinogenicity, category 1B

E١



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Repr. 2 Reproductive toxicity, category 2
Acute Tox. 2 Acute toxicity, category 2
Acute Tox. 3 Acute toxicity, category 3
Acute Tox. 4 Acute toxicity, category 4
Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Skin Corr. 1B
Skin corrosion, category 1B
Skin Corr. 1C
Skin Corr. 1
Skin corrosion, category 1C
Skin Corr. 1
Skin corrosion, category 1
Eye Dam. 1
Serious eye damage, category 1
Eye Irrit. 2
Skin Irrit. 2
Skin Irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1A Skin sensitization, category 1A

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

H226 Flammable liquid and vapour.
H242 Heating may cause a fire.
H350 May cause cancer.

H361d Suspected of damaging the unborn child.

H330 Fatal if inhaled.
H331 Toxic if inhaled.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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).



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SECTION 16. Other information .../>>

GENERAL BIBLIOGRAPHY

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- 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
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- 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
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- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 07 / 08 / 11 / 12 / 15 / 16.