

SAFETY DATA SHEET Permabond TA4208A

SECTION 1: Identification of the	ne substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	Permabond TA4208A
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
Identified uses	Adhesive.
1.3. Details of the supplier of the	ne safety data sheet
Supplier	Permabond Engineering Adhesives GmbH Niederkasseler Lohweg 18 40547 Düsseldorf Germany info.europe@permabond.com
Manufacturer	Permabond Engineering Adhesives Ltd. Wessex Way Colden Common Winchester Hampshire SO21 1WP United Kingdom Tel: +44 (0)1962 711 661 Fax: +44 (0)1962 711 662 info@permabond.co.uk
1.4. Emergency telephone nur	nber
Emergency telephone	CHEMTREC UK: +(44)-870-8200418 CHEMTREC US: 800-424-9300 (CCN: 829878)
National emergency telephone number	CHEMTREC Ireland: +(353)-19014670 CHEMTREC Australia: +(61)-290372994 CHEMTREC New Zealand: +(64)-98010034
SECTION 2: Hazards identifica	ation
2.1. Classification of the subst	ance or mixture
Classification (EC 1272/2008) Physical hazards	Flam. Liq. 3 - H226
Health hazards	Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H335
Environmental hazards	Aquatic Chronic 3 - H412
2.2. Label elements	
Hazard pictograms	
Signal word	Warning

Hazard statements	H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	 P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352a IF ON SKIN: Wash with plenty of 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	METHYL METHACRYLATE
Supplementary precautionary statements	 P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P261 Avoid breathing vapour/ spray. P271 Use only outdoors or in a well-ventilated area. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container in accordance with existing Community, National and local regulations.

2.3. Other hazards

None under normal conditions. This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

METHYL METHACRYLATE		30)-60%
CAS number: 80-62-6	EC number: 201-297-1	REACH registration number: 01- 2119452498-28-XXXX	
Classification			
Flam. Liq. 2 - H225			
Skin Irrit. 2 - H315			
Skin Sens. 1 - H317			
OTOT OF A LIAAF			
STOT SE 3 - H335			
POLY(OXY-1,2-ETHANEDIY METHYLETHYLIDENE)DI-4, METHYL-1-OXO-2-PROPEN	1-PHENYLENE]BIS[Ω-[(2-		1-5%
POLY(OXY-1,2-ETHANEDIY METHYLETHYLIDENE)DI-4,	1-PHENYLENE]BIS[Ω-[(2-	REACH registration number: 01-	1-5%

2,6-DI-TERT-BUTYL-P-CRE	ESOL	1-5%
CAS number: 128-37-0	EC number: 204-881-4	
M factor (Acute) = 1	M factor (Chronic) = 1	
REACH registration exempti	ion – < 1 tonne	
Classification Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
· ·		
CUMENE HYDROPEROXIE	DE	<1%
CAS number: 80-15-9	EC number: 201-254-7	REACH registration number: 01- 2119475796-19-XXXX
Classification		
Org. Perox. E - H242		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Acute Tox. 3 - H331		
Skin Corr. 1B - H314 Eye Dam. 1 - H318		
STOT SE 3 - H335		
STOT RE 2 - H373		
Aquatic Chronic 2 - H411		
The full text for all hazard sta	tements is displayed in Section 16.	
SECTION 4: First aid measur	res	
4.1. Description of first aid me	easures	
Inhalation	Move the exposed person to fresh air. Get m	edical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Give pler medical attention if any discomfort continues.	nty of water to drink. Do not induce vomiting. Get
Skin contact	Remove contaminated clothing. Wash skin th develop, obtain medical attention	noroughly with soap and water. If symptoms
Eye contact	Remove any contact lenses and open eyelids water for 15 minutes holding the eyelids oper continues.	s wide apart. Rinse immediately with plenty of n. Get medical attention if any discomfort
4.2. Most important symptom	s and effects, both acute and delayed	
Skin contact	Skin irritation. Mild dermatitis, allergic skin rat	sh.
Eye contact	Irritating and may cause redness and pain.	
4.3. Indication of any immedia	ate medical attention and special treatment nee	ded

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising fro	om the substance or mixture
Specific hazards	Flammable liquid and vapour. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.
Hazardous combustion products	Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
SECTION 6: Accidental releas	e measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	Eliminate all sources of ignition. Ensure adequate ventilation of the working area. Do not breathe vapour. Wear protective clothing as described in Section 8 of this safety data sheet.
6.2. Environmental precaution	<u>s</u>
Environmental precautions	Do not discharge into drains or watercourses or onto the ground.
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up	Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled containers for disposal.
6.4. Reference to other section	ns
Reference to other sections	For personal protection, see Section 8. For waste disposal, see section 13.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe hand	ling
Usage precautions	Avoid contact with skin and eyes. Use in a well ventilated area. Do not ingest or inhale. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.
7.2. Conditions for safe storag	e, including any incompatibilities
Storage precautions	Keep container tightly closed, in a cool, well ventilated place. Keep container dry. Store in closed original container at temperatures between 2°C and 7°C.
7.3. Specific end use(s)	
Specific end use(s)	Adhesive.
SECTION 8: Exposure control	s/Personal protection
8.1. Control parameters Occupational exposure limits METHYL METHACRYLATE	$h_{\rm M}$ TM(A): M/E1 50 ppm 208 mg/m ³
	bur TWA): WEL 50 ppm 208 mg/m ³

Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m³

2,6-DI-TERT-BUTYL-P-CRESOL

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³

WEL = Workplace Exposure Limit.

METHYL METHACRYLATE (CAS: 80-62-6)

DNEL	Workers, Industry/Professional - Inhalation; Long term : 208 mg/m ³
	Workers, Industry/Professional - Dermal; Long term : 13.67 mg/kg/day
	Workers, Industry/Professional - Inhalation; Short term : 416 mg/m ³
PNEC	Workers, Industry/Professional - Water; Long term <0.94 mg/l
POLY(OXY-1,2-ETHAN	EDIYL), A,A'-[(1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[Ω-[(2-METHYL-1-
	OXO-2-PROPEN-1-YL)OXY]- (CAS: 41637-38-1)
DNEL	Workers - Inhalation; Long term systemic effects: 3.52 mg/m ³
	Workers - Dermal; Long term systemic effects: 2 mg/kg/day
	2,6-DI-TERT-BUTYL-P-CRESOL (CAS: 128-37-0)
DNEL	Workers - Inhalation; Long term systemic effects: 3.5 mg/m ³
	Workers - Dermal; Long term systemic effects: 0.5 mg/kg/day
PNEC	Fresh water; 0.199 µg/l
	marine water; 0.02 μg/l
	STP; 0.17 mg/l
	Sediment (Freshwater); 99.6 µg/kg
	Sediment (Marinewater); 9.96 µg/kg
	Soil; 8.33 mg/kg
	CUMENE HYDROPEROXIDE (CAS: 80-15-9)
DNEL	Workers - Inhalation; Long term systemic effects: 6 mg/m ³
PNEC	Workers - Fresh water; 0.0031 mg/l
	Workers - marine water; 0.00031 mg/l
	Workers - Intermittent release; 0.031 mg/l
	Workers, Industry - Soil; 1.2 mg/kg
	Workers - STP; 0.35 mg/l
	Workers - Sediment (Freshwater); 0.023 mg/kg
	Workers - Sediment (Marinewater); 0.0023 mg/kg
	Workers - Soil; 0.0029 mg/kg

8.2. Exposure controls

Protective equipment





Appropriate engineering controls

Eye/face protection

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

If risk of splashing, wear safety goggles or face shield. Personal eye protection should conform to EN 166

Hand protection	It is recommended that chemical-resistant, impervious gloves are worn. Gloves should conform to EN 374. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Thickness: ≥ 0.4 mm The selected gloves should have a breakthrough time of at least 0.5 hours. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber. Thickness: ≥ 0.4 mm The selected gloves should have a breakthrough time of at least 8 hours. The breakthrough time for any glove material may be different for different glove manufacturers. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the gloves are retaining their protective properties and change them as soon as any deterioration is detected.
Other skin and body protection	Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance.
Hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
Respiratory protection	Ensure adequate ventilation of the working area. Respiratory protection may be required if excessive airborne contamination occurs. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Organic vapour filter. Type A. (EN14387)

SECTION 9: Physical and chemical properties

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9.1. Information on basic phys	ical and chemical properties
Appearance	Liquid.
Colour	White.
Odour threshold	Not available.
рН	Not relevant.
Melting point	Not available.
Initial boiling point and range	~100°C
Flash point	≈30°C
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.07
Solubility(ies)	Slightly soluble in water. Soluble in the following materials: Organic solvents.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Viscosity	≈10000 mPa s @ 23°C
Oxidising properties	Not available.
9.2. Other information	
Other information	Not relevant.

mg/kg)

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SECTION 10: Stability and re	eactivity
10.1. Reactivity	
Reactivity	The following materials may react with the product: Strong oxidising agents. Strong acids. Strong alkalis.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures.
10.3. Possibility of hazardous	s reactions
Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
10.4. Conditions to avoid	
Conditions to avoid	Take precautionary measures against static discharges. Avoid heat, flames and other sources of ignition.
10.5. Incompatible materials	
Materials to avoid	Strong oxidising agents. Strong acids. Strong alkalis.
10.6. Hazardous decomposit	ion products
Hazardous decomposition products	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.
SECTION 11: Toxicological in	nformation
11.1. Information on toxicolog	gical effects
Toxicological effects	The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.
Skin sensitisation	
Skin sensitisation	May cause sensitisation by skin contact.
Aspiration hazard Aspiration hazard	None under normal conditions.
Inhalation	May cause respiratory system irritation.
Skin contact	Irritating to skin.
Eye contact	Irritating and may cause redness and pain.
Toxicological information on i	ingredients.
	METHYL METHACRYLATE
Acute toxicity -	oral
Acute toxicity or mg/kg)	ral (LD₅o 5,000.0
Species	Rat
Acute toxicity -	dermal
Acute toxicity de	ermal (LD₅ 5,000.0

Species	Rat
Acute toxicity - inhalation	
Acute toxicity inhalation (LC ₅₀ vapours mg/l)	29.8
Species	Rat
Skin corrosion/irritation	
Skin corrosion/irritation	Not irritating. Prolonged skin contact may cause temporary irritation.
Serious eye damage/irritati	on
Serious eye damage/irritation	Not irritating.
Respiratory sensitisation	
Respiratory sensitisation	Mouse: Sensitising.
Skin sensitisation	
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Inconclusive.
Genotoxicity - in vivo	This substance has no evidence of mutagenic properties.
Carcinogenicity	
Carcinogenicity	CMR: no
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
Reproductive toxicity	
Reproductive toxicity - fertility	No evidence of reproductive toxicity in animal studies.
Reproductive toxicity - development	No evidence of reproductive toxicity in animal studies. non-teratogenic, not embryotoxic
Specific target organ toxicit	y - single exposure
Target organs	Respiratory tract Irritation.
Specific target organ toxicit	y - repeated exposure
Target organs	No specific target organs known.
Aspiration hazard	
Aspiration hazard	Based on available data the classification criteria are not met.
POLY(OXY-1,2-ETHANE	DIYL), A,A'-[(1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[Ω-[(2-METHYL-1- OXO-2-PROPEN-1-YL)OXY]-
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	2,000.1
Species	Rat

Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	2,000.1
Species	Rat
Acute toxicity - inhalation	
Notes (inhalation LC ₅₀)	No information available.
Skin corrosion/irritation	
Skin corrosion/irritation	Read-across data. Not irritating.
Serious eye damage/irritatio	on
Serious eye damage/irritation	Read-across data. Not irritating.
Skin sensitisation	
Skin sensitisation	Read-across data. Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Chromosome aberration: Negative.
Carcinogenicity	
Carcinogenicity	No information available.
Reproductive toxicity	
Reproductive toxicity - fertility	Screening - NOAEL 1000 mg/kg/day, Oral, Rat F1
Specific target organ toxicit	y - single exposure
Specific target organ toxicity STOT - single exposure	
	No information available.
STOT - single exposure Specific target organ toxicit	No information available.
STOT - single exposure Specific target organ toxicit	No information available. y - repeated exposure
STOT - single exposure Specific target organ toxicit STOT - repeated exposure	No information available. y - repeated exposure
STOT - single exposure Specific target organ toxicity STOT - repeated exposure Aspiration hazard	No information available. <u>y - repeated exposure</u> Read-across data. NOAEL 300 mg/kg/day, Oral, Rat
STOT - single exposure Specific target organ toxicity STOT - repeated exposure Aspiration hazard	No information available. y - repeated exposure Read-across data. NOAEL 300 mg/kg/day, Oral, Rat Not available.
STOT - single exposure Specific target organ toxicit STOT - repeated exposure Aspiration hazard Aspiration hazard	No information available. y - repeated exposure Read-across data. NOAEL 300 mg/kg/day, Oral, Rat Not available.
STOT - single exposure Specific target organ toxicity STOT - repeated exposure Aspiration hazard Aspiration hazard Acute toxicity - oral Acute toxicity oral (LD50	No information available. <u>y - repeated exposure</u> Read-across data. NOAEL 300 mg/kg/day, Oral, Rat Not available. <u>2,6-DI-TERT-BUTYL-P-CRESOL</u>
STOT - single exposure <u>Specific target organ toxicit</u> STOT - repeated exposure <u>Aspiration hazard</u> Aspiration hazard <u>Acute toxicity - oral</u> Acute toxicity oral (LD ₅₀ mg/kg)	No information available. y - repeated exposure Read-across data. NOAEL 300 mg/kg/day, Oral, Rat Not available. <u>2,6-DI-TERT-BUTYL-P-CRESOL</u> 6,000.0
STOT - single exposure <u>Specific target organ toxicity</u> STOT - repeated exposure <u>Aspiration hazard</u> Aspiration hazard <u>Acute toxicity - oral</u> Acute toxicity oral (LD ₅₀ mg/kg) Species	No information available. <u>y - repeated exposure</u> Read-across data. NOAEL 300 mg/kg/day, Oral, Rat Not available. <u>2,6-DI-TERT-BUTYL-P-CRESOL</u> 6,000.0 Rat
STOT - single exposure <u>Specific target organ toxicity</u> STOT - repeated exposure <u>Aspiration hazard</u> Aspiration hazard <u>Acute toxicity - oral</u> Acute toxicity oral (LD ₅₀ mg/kg) <u>Species</u> <u>Acute toxicity - dermal</u> Acute toxicity dermal (LD ₅₀	No information available. <u>y - repeated exposure</u> Read-across data. NOAEL 300 mg/kg/day, Oral, Rat Not available. <u>2,6-DI-TERT-BUTYL-P-CRESOL</u> 6,000.0 Rat
STOT - single exposure <u>Specific target organ toxicity</u> STOT - repeated exposure <u>Aspiration hazard</u> Aspiration hazard <u>Acute toxicity - oral</u> Acute toxicity oral (LD ₅₀ mg/kg) Species <u>Acute toxicity - dermal</u> Acute toxicity dermal (LD ₅₀ mg/kg)	No information available. <u>y - repeated exposure</u> Read-across data. NOAEL 300 mg/kg/day, Oral, Rat Not available. <u>2,6-DI-TERT-BUTYL-P-CRESOL</u> 6,000.0 Rat 2,000.1
STOT - single exposure <u>Specific target organ toxicity</u> STOT - repeated exposure <u>Aspiration hazard</u> Aspiration hazard <u>Acute toxicity - oral</u> <u>Acute toxicity oral (LD₅₀ mg/kg) Species <u>Acute toxicity - dermal</u> <u>Acute toxicity - dermal</u> <u>Acute toxicity dermal (LD₅₀ mg/kg) Species</u></u>	No information available. <u>y - repeated exposure</u> Read-across data. NOAEL 300 mg/kg/day, Oral, Rat Not available. <u>2,6-DI-TERT-BUTYL-P-CRESOL</u> 6,000.0 Rat 2,000.1

Serious eye damage/irritation	Method: OECD 405, Rabbit Not irritating.
Skin sensitisation	
Skin sensitisation	- Guinea pig: Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Gene mutation: Negative.
Genotoxicity - in vivo	Chromosome aberration: Negative.
Carcinogenicity	
Carcinogenicity	No evidence of carcinogenicity in animal studies.
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
Reproductive toxicity	
Reproductive toxicity - fertility	Two-generation study - NOAEL 100 mg/kg/day, Oral, Rat F1
Reproductive toxicity - development	Developmental toxicity: - LOAEL: 500 mg/kg/day, Oral, Rat
Specific target organ toxicity - single exposure	
STOT - single exposure	No information available.
Specific target organ toxicit	y - repeated exposure
STOT - repeated exposure	No information available.
Aspiration hazard	
Aspiration hazard	No information available. No information available.
	CUMENE HYDROPEROXIDE
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	328.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD∞ mg/kg)	1,200.0
Species	Rat
Acute toxicity - inhalation	
Acute toxicity inhalation (LC₅₀ dust/mist mg/l)	1.37
Species	Rat
Skin corrosion/irritation	
Animal data	Highly irritating.
Serious eye damage/irritation	on

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	Serious eye damage/irritation	Irritating to eyes.
	Skin sensitisation	
	Skin sensitisation	Not sensitising.
	Germ cell mutagenicity	
	Genotoxicity - in vitro	Positive.
	Genotoxicity - in vivo	This substance has no evidence of mutagenic properties.
	Carcinogenicity	
	Carcinogenicity	CMR: No
	Reproductive toxicity	
	Reproductive toxicity - fertility	No specific test data are available.
	Reproductive toxicity - development	Developmental toxicity: - NOAEL: ≥100 mg/kg/day, Oral, Rat
	Specific target organ toxicity - single exposure	
STOT - single exposure No specific test d		No specific test data are available.
	Specific target organ toxicity - repeated exposure	
	STOT - repeated exposure	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
	Aspiration hazard	
	Aspiration hazard	No specific test data are available.
SECTION 1	Aspiration hazard 2: Ecological information	No specific test data are available.
Ecotoxicity	2: Ecological information Harmful t	No specific test data are available.
Ecotoxicity 12.1. Toxicit	2: Ecological information Harmful t	to aquatic life with long lasting effects.
Ecotoxicity	2: Ecological information Harmful t Y The mixtu defined ir Annex I t	
Ecotoxicity 12.1. Toxicit Toxicity	2: Ecological information Harmful t Y The mixtu defined ir Annex I t	to aquatic life with long lasting effects. ure is classified based on the available hazard information for the ingredients as n the classification criteria for mixtures for each hazard class or differentiation in o Regulation 1272/2008/EC. Relevant available health/ecological information for the
Ecotoxicity 12.1. Toxicit Toxicity	2: Ecological information Harmful t Y The mixtu defined ir Annex I t substanc	to aquatic life with long lasting effects. ure is classified based on the available hazard information for the ingredients as n the classification criteria for mixtures for each hazard class or differentiation in o Regulation 1272/2008/EC. Relevant available health/ecological information for the
Ecotoxicity 12.1. Toxicit Toxicity	2: Ecological information Harmful t Y The mixtu defined ir Annex I t substanc	to aquatic life with long lasting effects. ure is classified based on the available hazard information for the ingredients as in the classification criteria for mixtures for each hazard class or differentiation in o Regulation 1272/2008/EC. Relevant available health/ecological information for the tes listed under Section 3 is provided in the following.
Ecotoxicity 12.1. Toxicit Toxicity	2: Ecological information Harmful t Y The mixtu defined ir Annex I t substanc	to aquatic life with long lasting effects. ure is classified based on the available hazard information for the ingredients as in the classification criteria for mixtures for each hazard class or differentiation in o Regulation 1272/2008/EC. Relevant available health/ecological information for the tes listed under Section 3 is provided in the following.
Ecotoxicity 12.1. Toxicit Toxicity	2: Ecological information Harmful t y The mixtu defined in Annex I t substanc formation on ingredients.	to aquatic life with long lasting effects. ure is classified based on the available hazard information for the ingredients as in the classification criteria for mixtures for each hazard class or differentiation in o Regulation 1272/2008/EC. Relevant available health/ecological information for the tes listed under Section 3 is provided in the following. <u>METHYL METHACRYLATE</u>
Ecotoxicity 12.1. Toxicit Toxicity	2: Ecological information Harmful t y The mixtu defined in Annex I t substanc formation on ingredients. Acute aquatic toxicity Acute toxicity - fish Acute toxicity - aquatic	to aquatic life with long lasting effects. ure is classified based on the available hazard information for the ingredients as in the classification criteria for mixtures for each hazard class or differentiation in o Regulation 1272/2008/EC. Relevant available health/ecological information for the the ses listed under Section 3 is provided in the following. <u>METHYL METHACRYLATE</u> LC ₅₀ , 96 hours: > 79 mg/l, Oncorhynchus mykiss (Rainbow trout)

Chronic aquatic toxicity

Chronic toxicity - fish early NOEC, 35 days: 9.4 mg/l, Danio rerio (Zebrafish) life stage

Chronic toxicity - aquatic NOEC, 21 days: 37 mg/l, Daphnia magna invertebrates

POLY(OXY-1,2-ETHANEDIYL), A,A'-[(1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[Ω-[(2-METHYL-1-OXO-2-PROPEN-1-YL)OXY]-

Acute aquatic toxicity	
Acute toxicity - fish	LL ₅₀ , 96 hours: >100 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	NOELR, 48 hours: 100 mg/l, Daphnia magna
Acute toxicity - microorganisms	NOEC, 3 hours: 10 mg/l, Activated sludge

2,6-DI-TERT-BUTYL-P-CRESOL

Acute aquatic toxicity	
LE(C)50	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC₅₀, 96 hours: 0.199 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 0.48 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC₅₀, 96 hours: 0.758 mg/l, Algae
Chronic aquatic toxicity	
M factor (Chronic)	1

CUMENE HYDROPEROXIDE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hour: 3.9 mg/l, Oncorhynchus mykiss (Rainbow trout)

12.2. Persistence and degradability

Persistence and degradability The product is not readily biodegradable.

Ecological information on ingredients.

METHYL METHACRYLATE

Biodegradation

Water - Degradation 94%: 14 days

POLY(OXY-1,2-ETHANEDIYL), A,A'-[(1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[Ω-[(2-METHYL-1-OXO-2-PROPEN-1-YL)OXY]-

Persistence and degradability

The product is biodegradable.

CUMENE HYDROPEROXIDE

Biodegradation	The substance is readily biodegradable.
12.3. Bioaccumulative potenti	
Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	Not available.
Ecological information on ingr	redients.
POLY(OXY-1,2-ETHANEDIYL), A,A'-[(1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[Ω-[(2-METHYL-1-	
	OXO-2-PROPEN-1-YL)OXY]-
Partition coefficie	ent log Pow: 5.30~5.62
	2,6-DI-TERT-BUTYL-P-CRESOL
Partition coefficie	ent log Pow: 5.1
12.4. Mobility in soil	
Mobility	No data available. The product has poor water-solubility.
12.5. Results of PBT and vPvB assessment	
Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.
12.6. Other adverse effects	
Other adverse effects	None known.
SECTION 13: Disposal consid	derations
13.1. Waste treatment method	ds
General information	Waste disposal should be in accordance with existing Community, National and local regulations Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Waste class	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances.
SECTION 14: Transport information	
SECTION 14: Transport inform	mation
SECTION 14: Transport inform 14.1. UN number 1993	mation
14.1. UN number	
14.1. UN number 1993 14.2. UN proper shipping nam	

3

Transport labels



14.4. Packing group

III

14.5. Environmental hazards

14.6. Special precautions for user

EmS F-E, S-E

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
Guidance	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information	
Revision date	26/01/2022
Revision	2
Supersedes date	06/01/2021

Hazard statements in full	H225 Highly flammable liquid and vapour.
	H226 Flammable liquid and vapour.
	H242 Heating may cause a fire.
	H302 Harmful if swallowed.
	H312 Harmful in contact with skin.
	H314 Causes severe skin burns and eye damage.
	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H318 Causes serious eye damage.
	H331 Toxic if inhaled.
	H335 May cause respiratory irritation.
	H373 May cause damage to organs through prolonged or repeated exposure.
	H400 Very toxic to aquatic life.
	H410 Very toxic to aquatic life with long lasting effects.
	H411 Toxic to aquatic life with long lasting effects.
	H412 Harmful to aquatic life with long lasting effects.
	H413 May cause long lasting harmful effects to aquatic life.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.