

Safety Data Sheet
MAPEFLEX PB 25 / A

Safety Data Sheet dated: 03/07/2019 - version 1



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

1.1. Product identifier

Mixture identification:

Trade name: MAPEFLEX PB 25 / A

Trade code: 901937

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

Recommended use: Two-component sealant

Uses advised against: Data not available

1.3. Details of the supplier of the safety data sheet

Company: MAPEI U.K. Ltd - Mapei House Steel Park Road

Halesowen - West Midlands B62 8HD

www.mapei.co.uk (office hour 8:30-17:30)

Responsible: sicurezza@mapei.it

1.4. Emergency telephone number

call NHS 111 or a doctor/OHES Environmental Ltd +44(0)1684 299 886

phone: +44(0)121 508 6970 - fax: +44(0)121 5086 960

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Eye Irrit. 2 Causes serious eye irritation.

Skin Sens. 1 May cause an allergic skin reaction.

Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) n. 1272/2008 (CLP)

Pictograms and Signal Words



Warning

Hazard statements:

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

Contains:

hydrocarbons, C9-unsaturated,-polymerized

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate May produce an allergic reaction.

A mixture of: α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene); α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT/vPvB Ingredients are present

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: MAPEFLEX PB 25 / A

Hazardous components within the meaning of the CLP regulation and related classification:

Quantity	Name	Ident. Numb.	Classification	Registration Number
≥ 10 - < 20 %	hydrocarbons, C9-unsaturated,-polymerized	CAS:71302-83-5 EC:615-276-3	Skin Sens. 1, H317; Aquatic Chronic 3, H412	01-2119555292-40-XXXX
≥ 5 - < 10 %	bis(isopropyl)naphthalene	CAS:38640-62-9 EC:254-052-6	Asp. Tox. 1, H304; Aquatic Chronic 1, H410	01-2119565150-48-XXXX
≥ 2.5 - < 5 %	calcium oxide	CAS:1305-78-8 EC:215-138-9	STOT SE 3, H335; Skin Irrit. 2, H315; Eye Dam. 1, H318	01-2119475325-36-XXXX
≥ 0.25 - < 0.49 %	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	EC:915-687-0	Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:1	01-2119491304-40-xxxx
≥ 0.25 - < 0.49 %	A mixture of: α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene); α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	EC:400-830-7 Index:607-176-00-3	Skin Sens. 1, H317; Aquatic Chronic 2, H411	01-0000015075-76-xxxx
≥ 0.25 - < 0.49 %	cyclohexanone	CAS:108-94-1 EC:203-631-1	Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318	01-2119453616-35-XXXX
≥ 0.01 - < 0.016 %	o-xylene	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT RE 2, H373; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	01-2119488216-32-XXXX

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

Eye damages

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
calcium oxide	NDS	NNN		2					
	NDSch	NNN		6					
	ACGIH	NNN		2					URT irr
	National	SWEDEN		1		2,5			SWEDEN, Short-term value, 15 minutes average value
	National	FINLAND		2					
	National	NORWAY		2					NORWAY, T
	National	FINLAND		2					
	National	NORWAY		2		4			
	DFG	GERMANY	C			2			
	ACGIH			2					upper respiratory tract irritation
	National	SWEDEN		1					
	National	FRANCE		2					
	National	SPAIN		1		4			
	National	GREECE		1		4			
	National	DENMARK		1					
	National	FINLAND		1		4			
	National	GERMANY		1					
	National	PORTUGAL		2					
	National	NORWAY		1		2			
	National	BELGIUM		2					
	NDS	POLAND		2					
	NDS	POLAND		1					
	NDSch	POLAND				6			
	NDSch	POLAND				4			
	CHE	SWITZERLAND				2			
	NDS	NETHERLANDS		1		4			
	National	CZECHIA		1					
	National	HUNGARY		1		4			
	Malaysia OEL	MALAYSIA		2					
	National	ESTONIA		1		4			
National	LATVIA		1		4				
National	CZECHIA	C			4				
National	SLOVAKIA		5						
National	SLOVENIA		5		5				
National	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		1		4				
National	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		1		6				

	National	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	2		4		
	National	BULGARIA	1		4		
	National	ROMANIA	1		4		
	National	LITHUANIA	1		4		
	National	CROATIA	1		4		
cyclohexanone	EU	NNN	40,8	10	81,6	20	Skin
	ACGIH	NNN		20		50	Skin, A3 - Eye and URT irr
	ACGIH			20		50	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; Skin - potential significant contribution to overall exposure by the cutaneous route; eye and upper respiratory tract irritation
	National	SWEDEN	41	10			
	National	FRANCE	40,8	10	81,6	20	
	National	SPAIN	41	10	82	20	
	National	GREECE	200	50	400	100	
	National	DENMARK	41	10			
	National	FINLAND	41	10	82	20	
	National	GERMANY	80	20			
	National	PORTUGAL	40,8	10	81,6	20	
	National	NORWAY	40	10	80	20	
	National	BELGIUM	40,8	10	81,6	20	
	NDS	POLAND	40				
	NDSCh	POLAND			80		
	CHE	SWITZERLAND			200	50	
	NDS	NETHERLANDS			50		
	National	CZECHIA	40				
	National	HUNGARY	40,8		81,6		
	Malaysian OEL	MALAYSIA	100	25			Skin notation
	National	ESTONIA	40,8	10	81,6	20	
	National	LATVIA	40,8	10	81,6	20	
	National	CZECHIA C			80		
	National	SLOVAKIA C			82		
	National	SLOVAKIA	41	10			
	National	SLOVENIA	40,8	10	81,6	20	
	National	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	41	10	82	20	
	National	BULGARIA	40,8	10	81,6	20	
	National	ROMANIA	40,8	10	81,6	20	

	TUR	TURKEY		40,8	10	81,6	20		
	National	LITHUANIA		40,8	10	81,6	20		
	National	CROATIA		40,8	10	81,6	20		
	EU			40,8	10	81,6	20	Indicative	Possibility of significant uptake through the skin
o-xylene	National	SWEDEN		221	50	442	100		SWEDEN, Short term value, 15 minutes average value
	National	FINLAND		220	50	440	100		FINLAND, hud
	National	NORWAY		108	25				NORWAY, H
	EU	NNN		221	50	442	100		Skin
	National	NORWAY		109	25	218	50		
	ACGIH	NNN			100		150		A4, BEI - URT and eye irr, CNS impair
	DFG	GERMANY	C			880	200		
	ACGIH				100		150		A4 - Not Classifiable as a Human Carcinogen; CNS impairment; eye and upper respiratory tract irritation
	National	SWEDEN		221	50				
	National	FRANCE		221	50	442	100		
	National	SPAIN		221	50	442	100		
	National	GREECE		435	100	650	150		
	National	DENMARK		109	25				
	National	FINLAND		220	50	440	100		
	National	GERMANY		440	100				
	National	PORTUGAL		221	50	442	100		
	National	NORWAY		108	25	135	37,5		
	National	BELGIUM		221	50	442	100		
	NDS	POLAND		100					
	NDSCh	POLAND				200			
	CHE	SWITZERLAND				870	200		
	NDS	NETHERLANDS		210		442			
	National	CZECHIA		200					
	National	HUNGARY		221		442			
	Malaysian OEL	MALAYSIA		434	100				
	National	ESTONIA		200	50	450	100		
	National	LATVIA		221	50	442	100		
	National	CZECHIA	C			400			
	National	SLOVAKIA	C			442			
	National	SLOVAKIA		221	50				
	National	SLOVENIA		221	50	442	100		
	National	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		220	50	441	100		
	National	BULGARIA		221,0	50	442	100		
	National	ROMANIA		221	50	442	100		

TUR	TURKEY	221	50	442	100		
National	LITHUANIA	221	50	442	100		
National	CROATIA	221	50	442	100		
EU		221	50	442	100	Indicative	Possibility of significant uptake through the skin (pure)

Biological Exposure Index

CAS-No.	Component	Value	UoM	Medium	Biological Indicator	Sampling Period
108-94-1	cyclohexanone	80	mg/L	Urine	Cyclohexanediol	End of turn; End of working week
		8	mg/L	Urine	Cyclohexanol	End of turn
1330-20-7	o-xylene	1,5	GGCREAT	Urine	Methyl uric Acid	End of turn

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
hydrocarbons, C9-unsaturated,-polymerized	71302-83-5	0,054	Fresh Water		
		0,54	Intermittent release		
		0,0054	Marine water		
		1584	Freshwater sediments		
		154	Marine water		
		316,7	Soil		
calcium oxide	1305-78-8	0,49	Fresh Water		
		0,32	Marine water		
		3	mg/l	Microorganisms in sewage treatments	
		1080	mg/kg	Soil	
		816	mg/l	Soil	
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		0,0022	Fresh Water		
		0,00022	Marine water		
		0,009	mg/l	Intermittent release	
		1,05	mg/kg	Freshwater sediments	
		0,11	mg/kg	Marine water sediments	
		0,21	mg/kg	Soil	
		1	mg/l	Microorganisms in sewage treatments	

		1 mg/m3	1 mg/m3	Human Inhalation	Long Term, local effects
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6, 6-pentamethyl-4- piperidyl sebacate		2,5 mg/kg	1,25 mg/kg	Human Dermal	Short Term, systemic effects
		2,35 mg/m3	0,58 mg/m3	Human Inhalation	Short Term, systemic effects
		2,35 mg/m3	0,58 mg/m3	Human Inhalation	Long Term, systemic effects
		2,5 mg/kg	1,25 mg/kg	Human Dermal	Long Term, systemic effects
			1,25 mg/kg	Human Oral	Short Term, systemic effects
			1,25 mg/kg	Human Oral	Long Term, systemic effects
A mixture of: α-3- (3-(2H-benzotriazol- 2-yl)-5-tert-butyl-4- hydroxyphenyl) propionyl-ω- hydroxypoly (oxyethylene); α-3- (3-(2H-benzotriazol- 2-yl)-5-tert-butyl-4- hydroxyphenyl) propionyl-ω-3-(3- (2H-benzotriazol-2- yl)-5-tert-butyl-4- hydroxyphenyl) propionyloxypoly (oxyethylene)		0,35 mg/m3	0,085 mg/m3	Human Inhalation	Long Term, systemic effects
		0,5 mg/kg	0,25 mg/kg	Human Dermal	Long Term, systemic effects
			0,025 mg/kg	Human Oral	Long Term, systemic effects
cyclohexanone	108-94-1	80 mg/m3		Human Inhalation	Short Term, systemic effects
		4 mg/kg		Human Dermal	Short Term, systemic effects
		80 mg/m3		Human Inhalation	Short Term, local effects
		4 mg/kg		Human Dermal	Long Term, systemic effects
		40 mg/m3		Human Inhalation	Long Term, systemic effects
		40 mg/m3		Human Inhalation	Long Term, local effects
			1 mg/kg	Human Dermal	Short Term, systemic effects
			20 mg/m3	Human Inhalation	Short Term, systemic effects
			1,5 mg/kg	Human Oral	Short Term, systemic effects
			40 mg/m3	Human Inhalation	Short Term, local effects

			1 mg/kg	Human Dermal	Long Term, systemic effects
			10 mg/m3	Human Inhalation	Long Term, systemic effects
			1,5 mg/kg	Human Oral	Long Term, systemic effects
o-xylene	1330-20-7	289 mg/m3	174 mg/m3	Human Inhalation	Short Term, local effects
		289 mg/m3	174 mg/m3	Human Inhalation	Short Term, systemic effects
		180 mg/kg	108 mg/kg	Human Dermal	Long Term, systemic effects
		77 mg/m3	14,8 mg/m3	Human Inhalation	Long Term, systemic effects
			1,6 mg/kg	Human Oral	Long Term, systemic effects

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; EN 374:

Polychloroprene - CR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Nitrile rubber - NBR: thickness $\geq 0,35\text{mm}$; breakthrough time $\geq 480\text{min}$.

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Fluorinated rubber - FKM: thickness $\geq 0,4\text{mm}$; breakthrough time $\geq 480\text{min}$.

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Hygienic and Technical measures

N.A.

Appropriate engineering controls:

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: paste black

Odour: characteristic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 100 °C (212 °F)

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.20 g/cm³

Solubility in water: Insoluble

Partition coefficient (n-octanol/water): N.A. - This product is a mixture

Auto-ignition temperature: N.A. - No explosive or spontaneous ignition in contact with air at room temperature

Decomposition temperature: N.A.

Viscosity: 3,000,000.00 cPs

Explosive properties: == - No components with explosive properties

Oxidizing properties: N.A. - No component with oxidizing properties

sebacate and Methyl
1,2,2,6,6-pentamethyl-4-
piperidyl sebacate

cyclohexanone	a) acute toxicity	LD50 Oral Rat = 1890 mg/kg LC50 Inhalation Vapour Rat > 6,2 mg/l 4h LD50 Skin Rabbit = 1100 mg/kg LD50 Skin Rabbit = 947 mg/kg LC50 Inhalation Rat = 8000 ppm 4h LD50 Oral Rat = 1544 mg/kg
o-xylene	a) acute toxicity	LD50 Oral Rat = 3523 mg/kg LC50 Inhalation Rat = 6700 mg/l 4h LD50 Skin Rabbit = 2000 mg/kg LD50 Skin Rabbit > 4350 mg/kg LC50 Inhalation Rat = 29,08 mg/l 4h LD50 Oral Rat = 3500 mg/kg
	e) germ cell mutagenicity	NOAEL Inhalation Rat > 2000 ppm
	f) carcinogenicity	NOAEL Oral Rat = 500 mg/kg NOAEL Oral Rat = 1000 mg/kg
	g) reproductive toxicity	NOAEL Inhalation Rat = 500 ppm

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
>=10 - <20 %	hydrocarbons, C9-unsaturated,-polymerized	CAS: 71302-83-5 - EINECS: 615-276-3	a) Aquatic acute toxicity : LL50 Fish = 25,8 mg/L
>=5 - <10 %	bis(isopropyl)naphthalene	CAS: 38640-62-9 - EINECS: 254-052-6	a) Aquatic acute toxicity : LL50 Daphnia = 1,7 mg/L 48 a) Aquatic acute toxicity : NOEC Daphnia = 0,013 mg/L - 21 d a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio > 1000 mg/L 96h a) Aquatic acute toxicity : LC50 Fish Oryzias latipes > 1000 mg/L 96h
>=2.5 - <5 %	calcium oxide	CAS: 1305-78-8 - EINECS: 215-138-9	a) Aquatic acute toxicity : LC50 Fish = 457 mg/L 96

			a) Aquatic acute toxicity : EC50 Daphnia = 49,1 mg/L 48
			b) Aquatic chronic toxicity : NOEC Daphnia = 32 mg/L - 14 d
			a) Aquatic acute toxicity : LC50 Fish = 50,6 mg/L 96
			a) Aquatic acute toxicity : LC50 Daphnia = 158 mg/L 96
			a) Aquatic acute toxicity : EC50 Algae = 184,57 mg/L 72
			b) Aquatic chronic toxicity : NOEC Algae = 48 mg/L 72
			a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio = 1070 mg/L 96h IUCLID
>=0.25 - <0.49 %	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	EINECS: 915-687-0	a) Aquatic acute toxicity : EC50 Daphnia = 20 mg/L 24
			a) Aquatic acute toxicity : EC50 Algae = 0,22 mg/L 72
			a) Aquatic acute toxicity : LC50 Fish = 0,97 mg/L 96
			a) Aquatic acute toxicity : LC50 Fish = 7,9 mg/L 96
			a) Aquatic acute toxicity : LC50 Fish = 0,9 mg/L 96
			b) Aquatic chronic toxicity : NOEC Daphnia = 6,3 mg/L - 21 d
>=0.25 - <0.49 %	A mixture of: α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene); α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-oxypoly(oxyethylene)	EINECS: 400-830-7 - INDEX: 607-176-00-3	a) Aquatic acute toxicity : LC50 Fish = 2,8 mg/L 96
			a) Aquatic acute toxicity : EC50 Daphnia = 4,0 mg/L 48
			a) Aquatic acute toxicity : EC50 Algae > 100 mg/L 72
>=0.25 - <0.49 %	cyclohexanone	CAS: 108-94-1 - EINECS: 203-631-1	a) Aquatic acute toxicity : EC50 Algae > 100 mg/L 72
			a) Aquatic acute toxicity : EC50 Daphnia = 820 mg/L 48
			a) Aquatic acute toxicity : LC50 Fish > 500 mg/L 96
			a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 481 mg/L 96h EPA
			a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 8,9 mg/L 96h IUCLID
>=0.01 - <0.016 %	o-xylene	CAS: 1330-20-7 - EINECS: 215-535-7 - INDEX: 601-022-00-9	a) Aquatic acute toxicity : EC50 Daphnia = 3,82 mg/L 48
			a) Aquatic acute toxicity : LC50 Fish = 2,6 mg/L 96
			a) Aquatic acute toxicity : EC50 Algae = 2,2 mg/L 72
			c) Bacteria toxicity : EC50 = 96 mg/L 24
			b) Aquatic chronic toxicity : NOEC Fish > 1,3 mg/L
			b) Aquatic chronic toxicity : NOEC Daphnia = 1,57 mg/L
			a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 13,4 mg/L 96h EPA
			a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 2,661 mg/L 96h EPA
			a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 13,5 mg/L 96h IUCLID
			a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 13,1 mg/L 96h EPA
			a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 19 mg/L 96h EPA
			a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 7,711

mg/L 96h EPA

a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 23,53 mg/L 96h EPA

a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio = 780 mg/L 96h EPA

a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio > 780 mg/L 96h IUCLID

a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata 30,26 mg/L 96h EPA

a) Aquatic acute toxicity : EC50 Daphnia water flea = 3,82 mg/L 48h

a) Aquatic acute toxicity : LC50 Daphnia Gammarus lacustris = 0,6 mg/L 48h

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

12.6. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number

3082

14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aromatic hydrocarbons)

IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aromatic hydrocarbons)

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aromatic hydrocarbons)

14.3. Transport hazard class(es)

ADR-Class: 9

IATA-Class: 9

IMDG-Class: 9

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5. Environmental hazards

Toxic Component most present: bis(isopropyl)naphthalene

Marine pollutant: Yes

Environmental Pollutant: Yes

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR exempt: No

ADR-Label: 9

ADR-Hazard identification number: 90

ADR-Special Provisions: 274 335 375 601

ADR-Transport category (Tunnel restriction code): 3 (-)

Air (IATA):

IATA-Passenger Aircraft: 964
IATA-Cargo Aircraft: 964
IATA-Label: 9
IATA-Subrisk: -
IATA-Erg: 9L
IATA-Special Provisions: A97 A158 A197

Sea (IMDG):

IMDG-Stowage Code: Category A
IMDG-Stowage Note: -
IMDG-Subrisk: -
IMDG-Special Provisions: 274 335 969
IMDG-Page: N/A
IMDG-Label: N/A
IMDG-EMS: F-A, S-F
IMDG-MFAG: N/A

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

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC (2004/42/EC) : N.A. g/l

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU)2015/830

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
Products belongs to category E2	200	500

German Water Hazard Class.

N.A.

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 30

SVHC Substances:

No Data Available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful 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.

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008 Classification procedure

3.3/2	Calculation method
3.4.2/1	Calculation method
4.1/C2	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand
VOC: Volatile Organic Compound
CSA: Chemical Safety Assessment
CSR: Chemical Safety Report
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level.
DPD: Dangerous Preparations Directive
DSD: Dangerous Substances Directive
EC50: Half Maximal Effective Concentration
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances.
ES: Exposure Scenario
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.