

## Safety Data Sheet

### MAPEPROOF ONE COAT comp. B

Safety Data Sheet dated 4/30/2019 version 1



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

### 1.1. Product identifier

Mixture identification:

Trade name: MAPEPROOF ONE COAT comp. B

Trade code: 9028213

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

Recommended use: Hardener for epoxy products

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)

Skin Corr. 1B Causes severe skin burns and eye damage.

Eye Dam. 1 Causes serious eye damage.

Skin Sens. 1A May cause an allergic skin reaction.

Repr. 1B May damage fertility or the unborn child .

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



Danger

#### Hazard statements:

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H360 May damage fertility or the unborn child .

H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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.  
P310 Immediately call a POISON CENTER.  
P391 Collect spillage.

#### Contains:

bisphenol A; 4,4'-isopropylidenediphenol  
2,4,6-tris(dimethylaminomethyl)phenol  
3-aminomethyl-3,5,5-trimethylcyclohexylamine  
1,3-Benzenedimethanamine  
Fatty acids, tall-oil, reaction products with triethylenetetramine May produce an allergic reaction.  
3-aminopropyldimethylamine; N,N-dimethyl-1,3-diaminopropane May produce an allergic reaction.  
bis[(dimethylamino)methyl]phenol May produce an allergic reaction.  
fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z) May produce an allergic reaction.  
Fatty acids, tall-oil, compds. with oleylamine May produce an allergic reaction.

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

Restricted to professional users.

#### 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: MAPEPROOF ONE COAT comp. B

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

Quantity	Name	Ident. Numb.	Classification	Registration Number
≥10 - <20 %	benzyl alcohol	CAS:100-51-6 EC:202-859-9 Index:603-057-00-5	Acute Tox. 4, H302; Acute Tox. 4, H332	01-2119492630-38-XXXX
≥10 - <20 %	2,4,6-tris(dimethylaminomethyl)phenol	CAS:90-72-2 EC:202-013-9	Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1B, H317	01-2119560597-27-XXXX
≥2.5 - <5 %	3-aminomethyl-3,5,5-trimethylcyclohexylamine	CAS:2855-13-2 EC:220-666-8 Index:612-067-00-9	Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1,1A,1B, H317; Aquatic Chronic 3, H412; Acute Tox. 4, H302; Acute Tox. 4, H312	01-2119514687-32-XXXX
≥2.5 - <5 %	bisphenol A; 4,4'-isopropylidenediphenol	CAS:80-05-7 EC:201-245-8 Index:604-030-00-0	Repr. 1B, H360F; STOT SE 3, H335; Eye Dam. 1, H318; Skin Sens. 1, H317	01-2119457856-23-0005
≥2.5 - <5 %	1,3-Benzenedimethanamine	CAS:1477-55-0 EC:216-032-5	Acute Tox. 4, H302; Acute Tox. 3, H331; Skin Corr. 1A, H314; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	
≥2.5 - <5 %	Fatty acids, tall-oil, reaction products with triethylenetetramine	CAS:68919-79-9 EC:272-905-0	Skin Corr. 1C, H314; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	01-2119490750-36
≥1 - <2.5 %	3-aminopropyldimethylamine; N,N-dimethyl-1,3-diaminopropane	CAS:109-55-7 EC:203-680-9 Index:612-061-00-6	Flam. Liq. 3, H226; Skin Corr. 1B, H314; Skin Sens. 1,1A,1B, H317; Acute Tox. 4, H302	01-2119486842-27-xxxx
≥1 - <2.5 %	bis[(dimethylamino)methyl]phenol	CAS:71074-89-0 EC:275-162-0	Skin Corr. 1C, H314; Skin Sens. 1B, H317	

≥0.1 - <0.25 %	fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z)	CAS:147900-93-4 EC:604-612-4	Acute Tox. 4, H302; Skin Sens. 1,1A,1B, H317; STOT RE 2, H373; Aquatic Chronic 2, H411	01-2119971821-33
≥0.1 - <0.25 %	Solvent naphtha (petroleum), light arom. (*)	CAS:64742-95-6 EC:265-199-0 Index:649-356-00-4	Flam. Liq. 3, H226; STOT SE 3, H335; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 2, H411, EUH066	
≥0.1 - <0.25 %	Fatty acids, tall-oil, compds. with oleylamine	CAS:85711-55-3 EC:288-315-1	Eye Dam. 1, H318; Skin Sens. 1A, H317; STOT RE 2, H373	01-2119974148-28-0000

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- 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  
Skin Irritation  
Erythema

### 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.  
Exercise the greatest care when handling or opening the container.  
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
benzyl alcohol	NDS	NNN	240						
	National	FINLAND	45		10				
bisphenol A; 4,4'-isopropylidenediphenol	NDS	NNN	5						
	NDSCh	NNN	10						
	EU	NNN	10						inhalable aerosol
	National	FINLAND	5						
	National	NORWAY	10						NORWAY, AR
	DFG	GERMANY	C			5			
	National	SWEDEN	2						
	National	FRANCE	10						
	National	SPAIN	2						
	National	GREECE	2						
	National	DENMARK	2						
	National	FINLAND	2						
	National	GERMANY	5						
	National	PORTUGAL	10						
	National	NORWAY	2			4			
	National	BELGIUM	10						
	NDS	POLAND	2						
	CHE	SWITZERLAND				5			
	NDS	NETHERLANDS	2						
	National	CZECHIA	2						
	National	HUNGARY	2						
	National	ESTONIA	10						
	National	LATVIA	2						

1,3-Benzenedimethanamine	National CZECHIA	C			5	
	National SLOVAKIA		2			
	National SLOVENIA		5		5	
	National UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		2		6	
	National BULGARIA		2			
	National ROMANIA		2			
	TUR TURKEY		10			
	National LITHUANIA		10			
	National CROATIA		2			
	EU		10			Indicative
	ACGIH	C			0,1	
	National FRANCE				0,1	
	National DENMARK	C			0,1	0,02
	National FINLAND	C			0,1	
	National NORWAY	C			0,1	
	Malaysi a OEL MALAYSIA	C			0,1	
Solvent naphtha (petroleum), light arom. (*)	National PORTUGAL	C			0,1	
	National SLOVENIA		0,1			
	EU NNN		100	19		

#### Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
2,4,6-tris (dimethylaminomethyl) phenol	90-72-2	0,084 mg/l	Fresh Water		
		0,0084 mg/l	Marine water		
		0,2 mg/l	Microorganisms in sewage treatments		
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	0,06 mg/l	Fresh Water		
		1,121 mg/kg	Soil		
		0,006 mg/l	Marine water		
		5,784 mg/kg	Freshwater sediments		
		0,578 mg/kg	Marine water sediments		
		0,23 mg/l	Intermittent release		
		3,18 mg/l	Microorganisms in sewage treatments		
bisphenol A; 4,4'-isopropylidenediphenol	80-05-7	0,018 mg/l	Fresh Water		

0,016 Marine water  
mg/l

3,7 Soil  
mg/kg

#### Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
2,4,6- tris (dimethylaminometh yl)phenol	90-72-2	4,9 mg/m3			Human Inhalation	Long Term, local effects	
		0,31 mg/m3			Human Inhalation	Long Term, systemic effects	
3-aminomethyl- 3,5,5- trimethylcyclohexyla mine	2855-13-2			0,526 mg/kg	Human Oral	Long Term, systemic effects	
bisphenol A; 4,4'- isopropylidenediphe nol	80-05-7	1,4 mg/kg	0,7 mg/kg		Human Dermal	Short Term, systemic effects	
		10 mg/m3	5 mg/m3		Human Inhalation	Short Term, systemic effects	
		1,4 mg/kg	0,7 mg/kg		Human Dermal	Long Term, systemic effects	
		10 mg/m3	0,25 mg/m3		Human Inhalation	Long Term, systemic effects	
			0,05 mg/kg		Human Oral	Short Term, systemic effects	
			0,05 mg/kg		Human Oral	Long Term, systemic effects	
			5 mg/m3		Human Inhalation	Long Term, local effects	
			5 mg/m3		Human Inhalation	Short Term, local effects	
Solvent naphtha (petroleum), light arom. (*)	64742-95-6	25 mg/kg			Human Dermal	Long Term, systemic effects	
		150 mg/m3			Human Inhalation	Long Term, systemic effects	
			11 mg/kg		Human Dermal	Long Term, systemic effects	
			32 mg/m3		Human Inhalation	Long Term, systemic effects	
			11 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.

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## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

Physical state: Liquid

Appearance and colour: liquid yellow

Odour: characteristic

Odour threshold: N.A.

pH: 11.00

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 62 °C (144 °F)

Evaporation rate: N.A.

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

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: N.A.

Solubility in water: partly soluble

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: 4,250.00 cPs

Explosive properties: == - No components with explosive properties

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

Solid/gas flammability: N.A.

### **9.2. Other information**

No additional information

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## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

Stable under normal conditions

### **10.2. Chemical stability**

Stable under normal conditions

### **10.3. Possibility of hazardous reactions**

None.

### **10.4. Conditions to avoid**

Stable under normal conditions.

### **10.5. Incompatible materials**

None in particular.

### **10.6. Hazardous decomposition products**

None.

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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological information of the mixture:**

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### **Toxicological information on main components of the mixture:**

benzyl alcohol	a) acute toxicity	LD50 Oral Rat = 1230 mg/kg
		LD50 Oral Mouse 1600 mg/kg
		LC50 Inhalation Rat = 11 mg/l 4h

	i) STOT-repeated exposure	LD50 Skin Rabbit = 2000 mg/kg NOAEL Oral Rat = 400 mg/kg
2,4,6-tris (dimethylaminomethyl) phenol	a) acute toxicity	LD50 Oral Rat = 2169 mg/kg
3-aminomethyl-3,5,5-trimethylcyclohexylamine	a) acute toxicity	LD50 Oral Rat = 1030 mg/kg
	g) reproductive toxicity	LC50 Inhalation Rat = 5,01 mg/l 4h LD50 Skin Rabbit > 2000 mg/kg NOAEL Oral Rat = 250 mg/kg NOAEL Oral Rat = 50 mg/kg
bisphenol A; 4,4'-isopropylidenediphenol	a) acute toxicity	LC50 Oral Rat = 3250 mg/kg  LC50 Skin Rabbit = 3000 mg/kg LD50 Skin Rabbit = 3 ml/kg LC50 Inhalation Rat > 170 mg/m <sup>3</sup> 6h LD50 Oral Rat = 3300 mg/kg
1,3-Benzenedimethanamine	a) acute toxicity	LD50 Oral Rat = 980 mg/kg  LD50 Skin Rabbit = 2000 mg/kg LD50 Skin Rabbit = 2 g/kg LC50 Inhalation Rat = 700 ppm 1h LD50 Oral Rat = 660 mg/kg
3-aminopropyl dimethylamine; N,N-dimethyl-1,3-diaminopropane	a) acute toxicity	LC50 Inhalation Rat > 431 mg/l 4h  LD50 Oral Rat = 922 mg/kg LD50 Skin Rabbit = 600 µl/kg
Solvent naphtha (petroleum), light arom. (*)	a) acute toxicity	LD50 Oral Rat > mg/kg  LD50 Skin Rabbit > 2000 mg/kg

**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 %	benzyl alcohol	CAS: 100-51-6 - EINECS: 202- 859-9 - INDEX: 603-057-00-5	a) Aquatic acute toxicity : LC50 Fish = 460 mg/L 96  a) Aquatic acute toxicity : EC50 Algae = 770 mg/L 72 a) Aquatic acute toxicity : EC50 Daphnia = 230 mg/L 48 a) Aquatic acute toxicity : LC50 Fish = 10 mg/L 96 a) Aquatic acute toxicity : NOEC Daphnia = 51 mg/L - 21 d a) Aquatic acute toxicity : LC50 Fish = 222 mg/L 24
>=10 - <20 %	2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2 - EINECS: 202- 013-9	a) Aquatic acute toxicity : LC50 Fish = 249 mg/L 24 a) Aquatic acute toxicity : LC50 Fish = 175 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia = 718 mg/L 96 a) Aquatic acute toxicity : EC50 Algae = 84 mg/L 72 b) Aquatic chronic toxicity : NOEC Algae = 6,25 mg/L a) Aquatic acute toxicity : LC50 Fish = 110 mg/L 96
>=2.5 - <5 %	3-aminomethyl-3,5,5-trimethylcyclohexylamine	CAS: 2855-13-2 - EINECS: 220- 666-8 - INDEX: 612-067-00-9	a) Aquatic acute toxicity : EC50 Daphnia = 23 mg/L 48 a) Aquatic acute toxicity : NOEC Daphnia = 8,3 mg/L 48 b) Aquatic chronic toxicity : NOEC Daphnia = 3 mg/L - 21 d a) Aquatic acute toxicity : EC50 Algae > 50 mg/L 72 a) Aquatic acute toxicity : NOEC Algae = 1,5 mg/L 72 a) Aquatic acute toxicity : LC50 Fish = 4,6 mg/L 96
>=2.5 - <5 %	bisphenol A; 4,4'-isopropylidenediphenol	CAS: 80-05-7 - EINECS: 201- 245-8 - INDEX: 604-030-00-0	a) Aquatic acute toxicity : EC50 Daphnia = 7,75 mg/L 48 a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 3,6 mg/L 96h EPA  a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 4 mg/L 96h EPA  a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 4 mg/L 96h IUCLID  a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio = 9,9 mg/L 96h IUCLID  a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 10,2 mg/L 48h IUCLID  a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 3,9 mg/L 48h IUCLID  a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna 9,2 mg/L 48h EPA  a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 2,5 mg/L 96h IUCLID
>=1 - <2.5 %	3-aminopropyl dimethylamine; N,N-dimethyl-1,3-diaminopropane	CAS: 109-55-7 - EINECS: 203- 680-9 - INDEX: 612-061-00-6	a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 595 mg/L 48h IUCLID

a) Aquatic acute toxicity : EC50 Algae *Desmodesmus subspicatus*  
= 562 mg/L 72h IUCLID

a) Aquatic acute toxicity : EC50 Algae *Desmodesmus subspicatus*  
= 575 mg/L 96h IUCLID

>=0.1 - <0.25 % Solvent naphtha (petroleum), light arom. (\*) CAS: 64742-95-6 - EINECS: 265-199-0 - INDEX: 649-356-00-4

a) Aquatic acute toxicity : LC50 Fish = 9,22 mg/L 96

a) Aquatic acute toxicity : EC50 *Daphnia* = 6,14 mg/L 48

## 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.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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## SECTION 14: Transport information

### 14.1. UN number

2735

### 14.2. UN proper shipping name

ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (triethylenetetramine - m-xylylenediamine)

IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (triethylenetetramine - m-xylylenediamine)

IMDG-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (triethylenetetramine - m-xylylenediamine)

### 14.3. Transport hazard class(es)

ADR-Class: 8

IATA-Class: 8

IMDG-Class: 8

### 14.4. Packing group

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

### 14.5. Environmental hazards

Marine pollutant: Yes

Environmental Pollutant: Yes

### 14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Special Provisions: 274

ADR-Transport category (Tunnel restriction code): 2 (E)

Air (IATA):

IATA-Passenger Aircraft: 851

IATA-Cargo Aircraft: 855

IATA-Label: 8

IATA-Subrisk: -

IATA-Erg: 8L

IATA-Special Provisions: A3 A803

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: SG35

IMDG-Subrisk: -

IMDG-Special Provisions: 274

IMDG-EMS: F-A, S-B

#### 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.

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: 28, 29, 30, 66, 70

#### SVHC Substances:

##### Substances in candidate list (Art. 59 Reg. 1907/2006, REACH):

Component	Ident. Numb.	Quantity	Properties:
bisphenol A; 4,4'-isopropylidenediphenol	CAS: 80-05-7	$\geq 2.5$ - $< 5$ %	SVHC
	EINECS: 201-245-8		Repr. Cat. 3.7/1B;
	Index: 604-030-00-0		

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

Code	Description
EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360	May damage fertility or the unborn child .
H360F	May damage fertility.
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
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), 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
3.2/1A	Skin Corr. 1A	Skin corrosion, Category 1A
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/1C	Skin Corr. 1C	Skin corrosion, Category 1C
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1-1A-1B	Skin Sens. 1,1A,1B	Skin Sensitisation, Category 1,1A,1B
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.7/1B	Repr. 1B	Reproductive toxicity, Category 1B
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**

3.2/1B	Calculation method
3.3/1	Calculation method
3.4.2/1A	Calculation method
3.7/1B	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.