

## 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 if inhaled, in contact with skin and if swallowed. |
| 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 if inhaled, in contact with skin and if swallowed. |
| 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:**

| Concentration (% w/w) | Name   | Ident. Numb.  | Classification   | Registration Number   | Properties |
|-----------------------|--|---|--|-----------------------|------------|
| ≥10 - <20 %           | benzyl alcohol   | CAS:100-51-6<br>EC:202-859-9<br>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<br>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<br>EC:220-666-8<br>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<br>EC:201-245-8<br>Index:604-030-00-0   | Repr. 1B, H360F; STOT SE 3, H335; Eye Dam. 1, H318; Skin Sens. 1, H317   | 01-2119457856-23-0005 | SVHC       |
| ≥2.5 - <5 %           | 1,3-Benzenedimethanamine   | CAS:1477-55-0<br>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<br>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<br>EC:203-680-9<br>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<br>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<br>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<br>EC:265-199-0<br>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<br>EC:288-315-1                       | Eye Dam. 1, H318; Skin Sens. 1A, H317; STOT RE 2, H373   | 01-2119974148-28-0000 |

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## 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)

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO<sub>2</sub>).

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.

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## 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      | None           |         | 240             |               |                  |                |           |                   |
|  | National | FINLAND        |         | 45              | 10            |                  |                |           |                   |
| bisphenol A; 4,4'-isopropylidenediphenol | NDS      | None           |         | 5               |               |                  |                |           |                   |
|  | NDSCh    | None           |         | 10              |               |                  |                |           |                   |
|  | EU       | None           |         | 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 | CZECH REPUBLIC |         |                 | 2             |                  |                |           |                   |
| National                                 | HUNGARY  |                |         | 2               |               |                  |                |           |                   |
| National                                 | ESTONIA  |                |         | 10              |               |                  |                |           |                   |
| National                                 | LATVIA   |                |         | 2               |               |                  |                |           |                   |

|  |                         |      |     |     |            |
|--|-------------------------|------|-----|-----|------------|
|  | National CZECH REPUBLIC | C    |     | 5   |            |
|  | National SLOVAKIA       |      | 2   |     |            |
|  | National SLOVENIA       |      | 5   | 5   |            |
|  | National UNITED KINGDOM |      | 2   | 6   |            |
|  | National BULGARIA       |      | 2   |     |            |
|  | National ROMANIA        |      | 2   |     |            |
|  | TUR TURKEY              |      | 10  |     |            |
|  | National LITHUANIA      |      | 10  |     |            |
|  | National CROATIA        |      | 2   |     |            |
|  | EU                      |      | 10  |     | Indicative |
| 1,3-Benzenedimethanamine                     | 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 |            |
|  | National PORTUGAL       | C    |     | 0,1 |            |
|  | National SLOVENIA       |      | 0,1 |     |            |
| Solvent naphtha (petroleum), light arom. (*) | EU                      | None | 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 mg/l  | Marine water                        |                    |        |
|  |           | 3,7 mg/kg   | Soil                                |                    |        |

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

| Component                                    | CAS-No.    | Worker Industrial | Worker Professional | Consumer | Exposure Route   | Exposure Frequency           | Remark |
|--|------------|-------------------|---------------------|----------|------------------|------------------------------|--------|
| 2,4,6-tris (dimethylaminomethyl) phenol      | 90-72-2    | 4,9               |                     |          | Human Inhalation | Long Term, local effects     |        |
|  |            | 0,31              |                     |          | Human Inhalation | Long Term, systemic effects  |        |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2  |                   |                     | 0,526    | Human Oral       | Long Term, systemic effects  |        |
| bisphenol A; 4,4'-isopropylidenediphenol     | 80-05-7    | 1,4               |                     | 0,7      | Human Dermal     | Short Term, systemic effects |        |
|  |            | 10                |                     | 5        | Human Inhalation | Short Term, systemic effects |        |
|  |            | 1,4               |                     | 0,7      | Human Dermal     | Long Term, systemic effects  |        |
|  |            | 10                |                     | 0,25     | Human Inhalation | Long Term, systemic effects  |        |
|  |            |                   |                     | 0,05     | Human Oral       | Short Term, systemic effects |        |
|  |            |                   |                     | 0,05     | Human Oral       | Long Term, systemic effects  |        |
|  |            |                   |                     | 5        | Human Inhalation | Long Term, local effects     |        |
|  |            |                   |                     | 5        | Human Inhalation | Short Term, local effects    |        |
| Solvent naphtha (petroleum), light arom. (*) | 64742-95-6 | 25                |                     |          | Human Dermal     | Long Term, systemic effects  |        |
|  |            | 150               |                     |          | Human Inhalation | Long Term, systemic effects  |        |
|  |            |                   |                     | 11       | Human Dermal     | Long Term, systemic effects  |        |
|  |            |                   |                     | 32       | Human Inhalation | Long Term, systemic effects  |        |
|  |            |                   |                     | 11       | 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 ISO 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 ISO 374 for gloves and EN ISO 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: DXE2H\_STR2LOV\_014 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 |
|                                       |                           | LD50 Skin Rabbit = 2000 mg/kg    |
|                                       | i) STOT-repeated exposure | 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   |
|  |                          | LC50 Inhalation Rat = 5,01 mg/l 4h<br>LD50 Skin Rabbit > 2000 mg/kg          |
|  | g) reproductive toxicity | NOAEL Oral Rat = 250 mg/kg<br>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<br>LD50 Skin Rabbit = 3 ml/kg                  |
|  |                          | LC50 Inhalation Rat > 170 mg/m <sup>3</sup> 6h<br>LD50 Oral Rat = 3300 mg/kg |
|  |                          |  |
| 1,3-Benzenedimethanamine                                     | a) acute toxicity        | LD50 Oral Rat = 980 mg/kg  |
|  |                          | LD50 Skin Rabbit = 2000 mg/kg<br>LD50 Skin Rabbit = 2 g/kg                   |
|  |                          | LC50 Inhalation Rat = 700 ppm 1h<br>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<br>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

| Component      | Ident. Numb.  | Ecotox Infos  |
|----------------|---|---|
| benzyl alcohol | CAS: 100-51-6 -<br>EINECS: 202-859-9<br>- INDEX: 603-057- | 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                                    |
| 2,4,6-tris(dimethylaminomethyl)phenol                        | CAS: 90-72-2 -<br>EINECS: 202-013-9                             | a) Aquatic acute toxicity : LC50 Fish = 222 mg/L 24  |
|  |   | 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   |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine                 | CAS: 2855-13-2 -<br>EINECS: 220-666-8<br>- INDEX: 612-067-00-9  | a) Aquatic acute toxicity : LC50 Fish = 110 mg/L 96  |
|  |   | 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   |
| bisphenol A; 4,4'-isopropylidenediphenol                     | CAS: 80-05-7 -<br>EINECS: 201-245-8<br>- INDEX: 604-030-00-0    | a) Aquatic acute toxicity : LC50 Fish = 4,6 mg/L 96  |
|  |   | 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 |
| 3-aminopropylidimethylamine; N,N-dimethyl-1,3-diaminopropane | CAS: 109-55-7 -<br>EINECS: 203-680-9<br>- 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         |
| Solvent naphtha (petroleum), light arom. (*)                 | CAS: 64742-95-6 -<br>EINECS: 265-199-0<br>- 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-Sub Risk: -

IATA-Erg: 8L

IATA-Special Provisioning: A3 A803

Sea (IMDG) :

IMDG-Stowage Code: Category A

IMDG-Stowage Note: SG35

IMDG-Sub Risk: -

IMDG-Special Provisioning: 274

IMDG-EMS: F-A, S-B

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

N.A.

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### 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 (WGK)

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<br>EINECS: 201-245-8<br>Index: 604-030-00-0 | $\geq 2.5$ - $< 5$ % | SVHC<br>Repr. Cat. 3.7/1B; |

### 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 if inhaled, in contact with skin and if swallowed. |
| 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.

| <b>Code</b>   | <b>Hazard class and hazard category</b> | <b>Description</b>   |
|---------------|---|--|
| 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]:**

| <b>Classification according to Regulation (EC) Nr. 1272/2008</b> | <b>Classification procedure</b> |
|--|---------------------------------|
| 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  
COV: 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  
N/A: Not Applicable  
N/D: Not defined/ Not available  
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.