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

### 1.1. Product identifier

Mixture identification:

Trade name: ADESILEX PG1 RAPIDO /B

Trade code: 900567

UFI: 13X3-P011-600G-9HNY

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

Recommended use: Hardener for epoxy products

Uses advised against: 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

phone: +44(0)121 508 6970 - fax: +44(0)121 5086 960 - www.mapei.co.uk (office hour 8:30-17:30)

Responsable: sicurezza@mapei.it

### 1.4. Emergency telephone number

call NHS 111 or a doctor/OHES Environmental Ltd +44(0)333 333 9962

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

| | |
|---|---|
| Skin Corr. 1A | Causes severe skin burns and eye damage. |
| Eye Dam. 1 | Causes serious eye damage. |
| Skin Sens. 1A | May cause an allergic skin reaction. |
| Repr. 2 | Suspected of damaging 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) No 1272/2008 (CLP):**

**Hazard pictograms and Signal Word**

Danger

**Hazard statements**

| | |
|---|---|
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H411 | Toxic to aquatic life with long lasting effects. |

**Precautionary statements**

| | |
|---|---|
| P202 | Do not handle until all safety precautions have been read and understood. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/clothing and eye/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. |
| P310 | Immediately call a POISON CENTER. |

P391 Collect spillage.

**Special Provisions:**

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**Contains**

trimethylhexamethylenediamine

trimethylhexane-1,6-diamine

4-tert-butylphenol

m-xylylenediamine

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

None.

**2.3. Other hazards**

**PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%:**

| Component | Ident. Numb. | Quantity | Material Properties |
|---|---|---|---|
| 4-tert-butylphenol | CAS: 98-54-4 - EINECS: 202-679-0 - 67-548-EC: 604-090-00-8 | >=2.5 - <5 % | SVHC – Endocrine disruptor |

Other Hazards: No other hazards

## SECTION 3: Composition/information on ingredients

**3.1. Substances**

Not Relevant

**3.2. Mixtures**

Mixture identification: ADESILEX PG1 RAPIDO /B

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

| Qty | Name | Ident. Numb. | Classification | Registration Number | Material Properti |
|---|---|---|---|---|---|
| ≥10 - <20 % | trimethylhexamethylenediamine | CAS:25513-64-8 EC:247-063-2 | Acute Tox. 4, H302; Skin Corr. 1A, H314; Skin Sens. 1A, H317 | 01-2119560598-25-XXXX | |
| ≥2.5 - <5 % | Phenol, styrenated | CAS:61788-44-1 EC:262-975-0 | Aquatic Chronic 2, H411; Aquatic Acute 1, H400 | 01-2119979575-18-XXXX | |
| ≥2.5 - <5 % | 4-tert-butylphenol | CAS:98-54-4 EC:202-679-0 Index:604-090-00-8 | Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Chronic 1, H410; Repr. 2, H361f, M-Chronic:1 | 01-2119489419-21-XXXX | SVHC Endocrine disruptor |
| ≥2.5 - <5 % | | CAS:100-51-6 EC:202-859-9 Index:603-057-00-5 | Acute Tox. 4, H332; Acute Tox. 4, H302; Eye Irrit. 2, H319 | 01-2119492630-38-XXXX | |
| ≥2.5 - <5 % | m-xylylenediamine | CAS:1477-55-0 EC:216-032-5 | Acute Tox. 4, H332; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412, EUH071 | 01-2119480150-50 | |
| ≥1 - <2.5 % | trimethylhexane-1,6-diamine | CAS:25620-58-0 EC:247-134-8 | Acute Tox. 4, H302; Skin Corr. 1C, H314; Skin Sens. 1A, H317; Aquatic Chronic 3, H412 | 01-2119560598-25-xxxx | |
| ≥0.25 - <0.49 % | free crystalline silica (Ø <10 µ) | CAS:14808-60-7 EC:238-878-4 | STOT RE 1, H372 | | |

## 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 opthalmologist 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.

**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**

**Community Occupational Exposure Limits (OEL)**

| | OEL Type | Country | Ceiling | Long Term mg/m3 | Long Term ppm | Short Term mg/m3 | Short Term ppm | Notes |
|---|---|---|---|---|---|---|---|---|
| 4-tert-butylphenol<br>CAS: 98-54-4 | DFG | GERMANY | C | | | 1,0 | 0,16 | |
| | National | DENMARK | | 0,5 | 0,08 | | | |
| | National | GERMANY | | 0,5 | 0,08 | | | |
| | CHE | SWITZERLAND | | | | 1 | 0,16 | |
| | National | SLOVENIA | | 0,5 | 0,08 | 2 | 0,32 | |
| | National | SLOVAKIA | | 0,08 | | | | |
| | National | FINLAND | | 45 | 10 | | | |
| CAS: 100-51-6 | | | | | | | | |
| | National | POLAND | | 240 | | | | |
| | DFG | GERMANY | C | | | 44 | 10 | |
| | National | GERMANY | | 22 | 5 | | | |
| | NDS | POLAND | | 240 | | | | |
| | National | CZECH REPUBLIC | | 40 | | | | |
| | National | LATVIA | | 5 | | | | |
| | National | CZECH REPUBLIC | C | | | 80 | | |
| | National | BULGARIA | | 5,0 | | | | |
| | National | LITHUANIA | | 5 | | | | |
| | National | SLOVENIA | | 22 | 5 | 44 | 10 | |
| m-xylylenediamine<br>CAS: 1477-55-0 | ACGIH | | C | | | 0,100 | | Skin - Eye, skin, and GI i |
| | National | FINLAND | | | | 0,1 | | FINLAND, takvärde, hud |
| | National | NORWAY | C | | | 0,1 | | T: Ceiling value is an instantaneous value that the maximum concentrat chemical in the breathing that should not be excee |
| | National | AUSTRIA | | 0,1 | | 0,100 | | |
| | ACGIH | | C | | | 0,1 | | |
| | ACGIH | | | | | | | Skin - potential significan contribution to overall ex the cutaneous route;eye, gastrointestinal and skin |
| | National | FRANCE | | | | 0,100 | | |
| | National | DENMARK | C | | | 0,1 | 0,020 | |
| | National | FINLAND | C | | | 0,1 | | |
| | Malaysia OEL | MALAYSIA | | | | | | Skin notation |
| | Malaysia OEL | MALAYSIA | C | | | 0,100 | | |
| | National | PORTUGAL | C | | | 0,1 | | |
| | National | SLOVENIA | | 0,100 | | | | |
| | National | NORWAY | C | | | 0,1 | | |
| free crystalline silica (Ø <10 µ)<br>CAS: 14808-60-7 | National | SWEDEN | | 0,100 | | | | SWEDEN, respirable aero |
| | National | NORWAY | | 0,100 | | | | K: Chemicals to be treate carcinogenic. |
| | NDS | POLAND | | 2,000 | | | | frakcja wdychalna |

| | | | | | |
|---|---|---|---|---|---|
| | NDS | POLAND | 0,300 | | frakcja respirabilna |
| | National | DENMARK | 0,3 | 0,600 | DENMARK, inhalable aero inhalable aerosol |
| | National | DENMARK | 0,100 | 0,200 | DENMARK, respirable aer respirable aerosol |
| | ACGIH | | 0,025 | | (R), A2 - Pulm fibrosis, lu cancer |
| | EU | | 0,025 | | A2 (R) - Pulm fibrosis, lu |
| | National | AUSTRIA | 0,150 | | A* |
| | ACGIH | | 0,025 | | A2 - Suspected Human Carcinogen;lung cancer;p fibrosis |
| | National | SWEDEN | 0,1 | | |
| | National | FRANCE | 0,1 | | |
| | National | SPAIN | 0,05 | | |
| | National | DENMARK | 0,3 | | |
| | National | FINLAND | 0,05 | | |
| | National | PORTUGAL | 0,025 | | |
| | National | NORWAY | 0,3 | 0,9 | |
| | National | BELGIUM | 0,1 | | |
| | NDS | POLAND | 0,1 | | |
| | NDS | NETHERLANDS | 0,075 | | |
| | National | CZECH REPUBLIC | 0,1 | | |
| | National | HUNGARY | 0,15 | | |
| | Malaysia OEL | MALAYSIA | 0,1 | | 0.1 mg/m3 TWA (respira |
| | National | ESTONIA | 0,1 | | |
| | National | SLOVAKIA | 0,1 | 0,5 | |
| | National | SLOVENIA | 0,1 | | |
| | National | BULGARIA | 0,07 | | |
| | National | ROMANIA | 0,1 | | |
| | National | LITHUANIA | 0,1 | | |
| | National | CROATIA | 0,1 | | |
| | National | ITALY | 0,100 | | |

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

| | PNEC Limit | Exposure Route | Exposure Frequency | Remark |
|---|---|---|---|---|
| trimethylhexamethylenediamine<br>CAS: 25513-64-8 | 0,102 mg/l | Fresh Water | | |
| | 0,622 mg/kg | Freshwater sediments | | |
| | 0,01 mg/l | Marine water | | |
| | 0,062 mg/kg | Marine water sediments | | |
| | 72 mg/l | Microorganisms in sewage treatments | | |
| | 10 mg/kg | Soil | | |
| Phenol, styrenated<br>CAS: 61788-44-1 | 0,001 mg/l | Fresh Water | | |

| | | |
|---|---|---|
| | 65778 mg/kg | Marine water sediments |
| | 65778 mg/kg | Freshwater sediments |
| | 0,17 mg/l | Microorganisms in sewage treatments |
| | 31525 mg/kg | Soil |
| | 1 mg/l | Fresh Water |
| CAS: 100-51-6 | | |
| | 0,1 mg/l | Marine water |
| | 5,27 mg/kg | Freshwater sediments |
| | 0,527 mg/kg | Marine water sediments |
| | 39 mg/l | Microorganisms in sewage treatments |
| | 0,45 mg/kg | Soil |
| | 2,3 mg/l | Intermittent release |
| m-xylylenediamine | 0,094 mg/kg | Fresh Water |
| CAS: 1477-55-0 | | |
| | 0,0094 mg/l | Marine water |
| | 0,43 mg/kg | Freshwater sediments |
| | 0,043 mg/kg | Marine water sediments |
| | 0,152 mg/l | Intermittent release |
| | 0,045 mg/kg | Soil |
| | 10 mg/l | Microorganisms in sewage treatments |

**Derived No Effect Level (DNEL) values**

| | Worker Industry | Worker Professional | Consumer | Exposure Route | Exposure Frequency | Remark |
|---|---|---|---|---|---|---|
| Phenol, styrenated | 11,02 mg/m3 | | 2,717 mg/m3 | Human Inhalation | Long Term, systemic effects | |
| CAS: 61788-44-1 | | | | | | |
| | 6,25 mg/kg | | 3,125 mg/kg | Human Dermal | Long Term, systemic effects | |
| | | | 1,562 mg/kg | Human Oral | Long Term, systemic effects | |
| | | | 20 mg/kg | Human Oral | Short Term, systemic effects | |
| CAS: 100-51-6 | | | | | | |
| | | | 4 mg/kg | Human Oral | Long Term, systemic effects | |
| | 110 mg/m3 | | 27 mg/m3 | Human Inhalation | Short Term, systemic effects | |

| | | | | |
|---|---|---|---|---|
| | 22 mg/m3 | 5,4 mg/m3 | Human Inhalation | Long Term, systemic effects |
| | 40 mg/kg | 20 mg/kg | Human Dermal | Short Term, systemic effects |
| | 8 mg/kg | 4 mg/kg | Human Dermal | Long Term, systemic effects |
| m-xylylenediamine CAS: 1477-55-0 | 0,33 mg/kg | | Human Dermal | Long Term, systemic effects |
| | 1,2 mg/m3 | | Human Inhalation | Long Term, systemic effects |
| | 0,2 mg/m3 | | Human Inhalation | Long Term, local effects |

**8.2. Exposure controls**

Eye protection:

Use close fitting safety goggles, don't use contact lenses.

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 >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

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.

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to appropriate EN standards, like EN 136, 140, 143, 149, 14387 for information on selection and use of appropriate respiratory protection equipment.

Hygienic and Technical measures

Not available

Appropriate engineering controls:

Not available

## SECTION 9: Physical and chemical properties

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

Physical state: Liquid

Appearance: paste

Colour: white

Odour: ammonia

Odour threshold: Not available

Melting point / freezing point: Not available

Initial boiling point and boiling range: Not available

Flammability: N.A.

Upper/lower flammability or explosive limits: Not available

Flash point: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

pH: 11.00

Viscosity: 375,000.00 cPs

Kinematic viscosity: Not available

Solubility in water: partly soluble

Solubility in oil: insoluble

Partition coefficient (n-octanol/water): Not available

Vapour pressure: Not available

Relative density: 1.50 g/cm3

Vapour density: Not available

**Particle characteristics:**

Particle size: Not available

**9.2. Other information**

Miscibility: Not available

Conductivity: Not available

Explosive properties: ==

No other relevant information

## 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.

## SECTION 11: Toxicological information

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

**Toxicological Information of the Preparation**

| | |
|---|---|
| a) acute toxicity | Not classified |
| | Based on available data, the classification criteria are not met |
| b) skin corrosion/irritation | The product is classified: Skin Corr. 1A(H314) |
| c) serious eye damage/irritation | The product is classified: Eye Dam. 1(H318) |
| d) respiratory or skin sensitisation | The product is classified: Skin Sens. 1A(H317) |
| e) germ cell mutagenicity | Not classified |
| | Based on available data, the classification criteria are not met |
| f) carcinogenicity | Not classified |
| | Based on available data, the classification criteria are not met |
| g) reproductive toxicity | The product is classified: Repr. 2(H361) |
| h) STOT-single exposure | Not classified |
| | Based on available data, the classification criteria are not met |
| i) STOT-repeated exposure | Not classified |
| | Based on available data, the classification criteria are not met |
| j) aspiration hazard | Not classified |
| | Based on available data, the classification criteria are not met |

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

| | | |
|---|---|---|
| trimethylhexamethylenediamine | a) acute toxicity | LD50 Oral Rat = 910 mg/kg |
| Phenol, styrenated | a) acute toxicity | LC50 Inhalation Vapour Mouse = 158,3 mg/l 4h |
| | | LD50 Oral Rat > 2500 mg/kg |
| | | LD50 Skin Rat > 2000 mg/kg |
| | | LD50 Skin Rabbit > 7940 mg/kg |
| | | LC50 Inhalation Rat > 2,5 mg/l 6h |
| | | LD50 Oral Rat 2100 mg/kg |
| 4-tert-butylphenol | a) acute toxicity | LD50 Skin Rabbit = 2318 mg/kg |
| | | LD50 Oral Rat = 4000 mg/kg |
| | a) acute toxicity | LC50 Inhalation Rat = 11, mg/l 4h |
| | | LD50 Oral Rat = 1230, mg/kg |
| | g) reproductive toxicity | NOAEL Rat = 1072, mg/m3 |

| | | |
|---|---|---|
| m-xylylenediamine | a) acute toxicity | LD50 Oral Mouse = 930 mg/kg<br>LD50 Skin Rabbit = 2000 mg/kg<br>LC50 Inhalation Mist Rat = 1,34 mg/l 4h<br>LC50 Inhalation Rat = 700, ppm 1h |
| trimethylhexane-1,6-diamine | a) acute toxicity | LD50 Oral Rat = 910 mg/kg |
| free crystalline silica (Ø <10 µ) | a) acute toxicity | LD50 Oral Rat = 500 mg/kg |

**11.2. Information on other hazards**

**Endocrine disrupting properties:**

N.A.

## 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 Eco-Toxicological properties of the product**

The product is classified: Aquatic Chronic 2(H411)

**List of Eco-Toxicological properties of the components**

| Component | Ident. Numb. | Ecotox Data |
|---|---|---|
| trimethylhexamethylenediamine | CAS: 25513-64-8 - EINECS: 247-063-2 | a) Aquatic acute toxicity : LC50 Fish = 174 mg/L 48 |
| | | a) Aquatic acute toxicity : EC50 Daphnia = 31,5 mg/L 24 |
| | | a) Aquatic acute toxicity : EC50 Algae = 43,5 mg/L 72 |
| | | a) Aquatic acute toxicity : NOEC Algae = 16 mg/L 72 |
| | | c) Bacteria toxicity : EC50 Bacteria = 89 mg/L 17 |
| | | b) Aquatic chronic toxicity : NOEC Fish = 10,9 mg/L - 34 d |
| | | b) Aquatic chronic toxicity : NOEC Daphnia = 1,02 mg/L - 21 d |
| | | d) Terrestrial toxicity : NOEC = 1000 mg/kg - 28 d |
| Phenol, styrenated | CAS: 61788-44-1 - EINECS: 262-975-0 | a) Aquatic acute toxicity : EC50 Daphnia = 4,6 mg/L 48 |
| | | a) Aquatic acute toxicity : EC50 Algae = 9,7 mg/L 72 |
| | | a) Aquatic acute toxicity : LC50 Fish = 5,6 mg/L 96 |
| 4-tert-butylphenol | CAS: 98-54-4 - EINECS: 202-679-0 - INDEX: 604-090-00-8 | a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 4,71 mg/L 96h EPA |
| | | a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio = 6,9 mg/L 96h EPA |
| | | a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 3,9 mg/L 48h IUCLID |
| | | a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna 3,4 mg/L 48h EPA |
| | | a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 11,2 mg/L 72h IUCLID |
| | CAS: 100-51-6 - EINECS: 202-859-9 - INDEX: 603-057-00-5 | a) Aquatic acute toxicity : EC50 Daphnia = 230 mg/L 48 |
| | | a) Aquatic acute toxicity : LC50 Fish = 770 mg/L 1 |
| | | a) Aquatic acute toxicity : EC50 Algae = 770 mg/L 72 |

| | | | |
|---|---|---|---|
| | | a) Aquatic acute toxicity : | LC50 Fish = 460 mg/L 96 |
| | | a) Aquatic acute toxicity : | LC50 Fish Pimephales promelas = 460 mg/L 96h EPA |
| m-xylylenediamine | CAS: 1477-55-0 - EINECS: 216-032-5 | a) Aquatic acute toxicity : | EC50 Algae = 20 mg/L 72h |
| | | a) Aquatic acute toxicity : | EC50 Daphnia = 15,2 mg/L 48h |
| | | a) Aquatic acute toxicity : | LC50 Fish Oryzias latipes = 87,6 mg/L 96h ECHA |
| trimethylhexane-1,6-diamine | CAS: 25620-58-0 - EINECS: 247-134-8 | a) Aquatic acute toxicity : | EC50 Algae Desmodesmus subspicatus = 29,5 mg/L 72h IUCLID |

**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**

**PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%:**

| Component | Ident. Numb. | Quantity | Material Properties |
|---|---|---|---|
| 4-tert-butylphenol | CAS: 98-54-4 - EINECS: 202-679-0 - 67-548-EC: 604-090-00-8 | >=2.5 - <5 % | SVHC – Endocrine disruptor |

**12.6. Endocrine disrupting properties**

N.A.

**12.7. Other adverse effects**

Not available

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

A waste code (EWC) according to European List of Waste (LoW) cannot be specified, due to dependence on the usage. Contact and send to an authorized waste disposal service.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Hazardous waste: Yes

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

## SECTION 14: Transport information

**14.1. UN number or ID number**

2735

**14.2. UN proper shipping name**

ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (m-xylylendiamine - paratertiarybutylphenol)

IATA-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (m-xylylendiamine - paratertiarybutylphenol)

IMDG-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (m-xylylendiamine - paratertiarybutylphenol)

**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
IMDG-EMS: F-A, S-B

**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-Subsidiary hazards: -
IATA-Erg: 8L
IATA-Special Provisions: A3 A803

Sea (IMDG):

IMDG-Stowage and handling: Category A
IMDG-Segregation: SG35 SGG18
IMDG-Subsidiary hazards: -
IMDG-Special Provisions: 274
IMDG-EMS: F-A, S-B

**14.7. Maritime transport in bulk according to IMO instruments**

Not Applicable

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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. 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) n. 2020/878
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)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 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) |
|---|---|---|
| Product belongs to category: E2 | 200 | 500 |

**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

Restrictions related to the substances contained: 75

**SVHC Substances:**

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

| Component | Ident. Numb. | Quantity | Material Properties |
|---|---|---|---|
| 4-tert-butylphenol | CAS: 98-54-4 | >=2.5 - <5 % | SVHC |
| | EINECS: 202-679-0 | | Endocrine disruptor |
| | Index: 604-090-00-8 | | |

**German Water Hazard Class.**

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**15.2. Chemical safety assessment**

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

## SECTION 16: Other information

| Code | Description |
|---|---|
| EUH071 | Corrosive to the respiratory tract. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| 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. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H361f | Suspected of damaging fertility. |
| H372 | Causes 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 |
|---|---|---|
| 3.1/4/Inhal | Acute Tox. 4 | Acute toxicity (inhalation), Category 4 |
| 3.1/4/Oral | Acute Tox. 4 | Acute toxicity (oral), Category 4 |
| 3.2/1A | 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 |
| 3.2/2 | 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 |
| 3.4.2/1A | Skin Sens. 1A | Skin Sensitisation, Category 1A |
| 3.7/2 | Repr. 2 | Reproductive toxicity, Category 2 |
| 3.9/1 | STOT RE 1 | Specific target organ toxicity — repeated exposure, Category 1 |
| 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 |
|---|---|
| 3.2/1A | Calculation method |
| 3.3/1 | Calculation method |

| | |
|---|---|
| 3.4.2/1A | Calculation method |
| 3.7/2 | Calculation method |
| 4.1/C2 | Calculation method |

If appropriate, specific provisions in relation to possible training for workers are mentioned in section 2. Any training related to safety in the workplace must in any case refer to a risk assessment that must be carried out by a company safety officer taking into account the specific operating and environmental conditions in which the products are used.

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

KAFH: KAFH

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.

*** Sheet model entirely changed in compliance to regulatory update.**