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

### 1.1. Product identifier

Mixture identification:

Trade name: ULTRACARE KERAPOXY CLEANER

Trade code: 9011498

Registration Number N/A

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

Recommended use: Cleaner

Uses advised against: N.A.

### 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)

Responsible: 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 Irrit. 2 | Causes skin irritation. |
| Eye Irrit. 2 | Causes serious eye irritation. |

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

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

**Pictograms and Signal Words**

Warning

**Hazard statements:**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |

**Precautionary statements:**

| | |
|---|---|
| P264 | Wash hands thoroughly after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |

**Special Provisions:**

| | |
|---|---|
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction. |
| EUH208 | Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction. |

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

None

### 2.3. Other hazards

No PBT/vPvB Ingredients are present

Other Hazards: No other hazards

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Mixture identification: ULTRACARE KERAPOXY CLEANER

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

| Concentration (% w/w) | 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, H332; Acute Tox. 4, H302; Eye Irrit. 2, H319 | 01-2119492630-38-XXXX |
| ≥2.5 - <5 % | dipropyleneglycol methyl ether | CAS:34590-94-8 EC:252-104-2 | Substance with a Union workplace exposure limit. | 01-2119450011-60-xxxx |
| ≥1 - <2.5 % | 2-aminoethanol; ethanolamine | CAS:141-43-5 EC:205-483-3 Index:603-030-00-8 | Skin Corr. 1B, H314; STOT SE 3, H335; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 | 01-2119486455-28-XXXX |
| ≥0.49 - <1 % | 1-methoxy-2-propanol | CAS:107-98-2 EC:203-539-1 Index:603-064-00-3 | Flam. Liq. 3, H226; STOT SE 3, H336 | 01-2119457435-35-XXXX |
| ≥0.49 - <1 % | sodium hydroxide; caustic soda | CAS:1310-73-2 EC:215-185-5 Index:011-002-00-6 | Skin Corr. 1A, H314; Met. Corr. 1, H290 | 01-2119457892-27-0000 |
| ≥0.016 - <0.025 % | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | CAS:2634-33-5 EC:220-120-9 Index:613-088-00-6 | Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 2, H411 | |
| <0.0015 % | reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) | CAS:55965-84-9 EC:611-341-5 Index:613-167-00-5 | Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 3, H301; Skin Corr. 1C, H314; Skin Sens. 1A, H317; Acute Tox. 2, H310; Acute Tox. 2, H330; Eye Dam. 1, H318, M-Chronic:100, M-Acute:100 | |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

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

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

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

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an 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 ($CO_2$).

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.

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 | National | FINLAND | | 45 | 10 | | | | |
| | 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 | |
| dipropyleneglycol methyl ether | SUVA | None | | 300 | 50 | 300 | 50 | |
| | NDS | None | | 240 | | | | |
| | National | None | | 303 | 50 | 600 | 100 | |
| | National | None | | 300 | 50 | 450 | 75 | Short-term value, 15 minutes average value |
| | National | None | | 310 | 50 | | | hud |
| | National | None | | 300 | 50 | | | H |
| | NDSCh | None | | 480 | | | | |
| | EU | None | | 308 | 50 | | | Skin |
| | ACGIH | None | | | 100 | | 150 | Skin - Eye and URT irr, CNS impair |
| | DFG | GERMANY | C | | | 310 | 50 | |
| | ACGIH | | | | 100 | | 150 | Skin - potential significant contribution to overall exposure by the cutaneous route;CNS impairment;eye and upper respiratory tract irritation |
| | National | SWEDEN | | 300 | 50 | | | |
| | National | FRANCE | | 308 | 50 | | | |
| | National | SPAIN | | 308 | 50 | | | |
| | National | GREECE | | 600 | 100 | 900 | 150 | |
| | National | DENMARK | | 309 | 50 | | | |
| | National | FINLAND | | 310 | 50 | | | |
| | National | GERMANY | | 310 | 50 | | | |
| | National | PORTUGAL | | 308 | 50 | | 150 | |
| | National | NORWAY | | 300 | 50 | 375 | 75 | |
| | National | BELGIUM | | 308 | 50 | | | |
| | NDS | POLAND | | 240 | | | | |
| | NDSCh | POLAND | | | | 480 | | |
| | CHE | SWITZERLAND | | | | 300 | 50 | |
| | NDS | NETHERLANDS | | 300 | | | | |
| | National | CZECH REPUBLIC | | 270 | | | | |
| | National | HUNGARY | | 308 | | | | |
| | Malaysia OEL | MALAYSIA | | 606 | 100 | | | Skin notation |
| | National | ESTONIA | | 308 | 50 | | | |
| | National | LATVIA | | 308 | 50 | | | |
| | National | CZECH REPUBLIC | C | | | 550 | | |
| | National | SLOVAKIA | | 308 | 50 | | | |
| | National | SLOVENIA | | 308 | 50 | | | |
| | National | UNITED KINGDOM | | 308 | 50 | 924 | 150 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | National | BULGARIA | | 308.0 | 50 | | | | |
| | National | ROMANIA | | 308 | 50 | | | | |
| | TUR | TURKEY | | 308 | 50 | | | | |
| | National | LITHUANIA | | 308 | 50 | 450 | 75 | | |
| | National | CROATIA | | 308 | 50 | | | | |
| | EU | | | 308 | 50 | | | Indicative | Possibility of significant uptake through the skin |
| | National | SLOVENIA | | 308 | 50 | 308 | 50 | | |
| 2-aminoethanol; ethanolamine | National | NORWAY | | 2.500 | 1.000 | | | | H E |
| | NDS | None | | 2.5 | | | | | |
| | NDSCh | None | | 7.500 | | | | | |
| | National | SWEDEN | | 8.000 | 3.000 | 15.000 | 6.000 | | SWEDEN, Short-term value, 15 minutes average value |
| | National | FINLAND | | 2.500 | 1.000 | 7.600 | 3.000 | | FINLAND, hud |
| | EU | None | | 2.5 | 1 | 7.600 | 3.000 | | Skin |
| | ACGIH | None | | | 3.000 | | 6.000 | | Eye and skin irr |
| | DFG | GERMANY | C | | | 0.510 | 0.200 | | |
| | ACGIH | None | | | 3.000 | | 6.000 | | eye and skin irritation |
| | EU | None | | 2.500 | 1.000 | 7.600 | 3.000 | Indicative | Possibility of significant uptake through the skin |
| | National | DENMARK | | 2.5 | 1 | | | | |
| | National | GERMANY | | 0.500 | 0.200 | | | | |
| | National | PORTUGAL | | 2.5 | 1 | 7.6 | 3 | | |
| | NDS | POLAND | | 2.5 | | | | | |
| | NDSCh | POLAND | | | | 7.500 | | | |
| | NDS | NETHERLANDS | | 2.500 | | 7.600 | | | |
| | National | CZECH REPUBLIC | | 2.500 | | | | | |
| | National | HUNGARY | | 2.500 | | 7.600 | | | |
| | National | CZECH REPUBLIC | C | | | 7.500 | | | |
| | National | SLOVAKIA | C | | | 7.600 | | | |
| | National | ROMANIA | | 2.5 | 1 | 7.6 | 3 | | |
| | National | LITHUANIA | | 2.5 | 1 | 7.6 | 3 | | |
| | ACGIH | | | | 3 | | 6 | | eye and skin irritation |
| | National | SWEDEN | | 2.5 | 1 | | | | |
| | EU | | | 2.5 | 1 | 7.6 | 3 | Indicative | Possibility of significant uptake through the skin |
| | National | FRANCE | | 2.5 | 1 | 7.6 | 3 | | |
| | National | SPAIN | | 2.5 | 1 | 7.5 | 3 | | |
| | National | GREECE | | 2.5 | 1 | 7.6 | 3 | | |
| | National | FINLAND | | 2.5 | 1 | 7.6 | 3 | | |
| | National | NORWAY | | 2.5 | 1 | 5 | 2 | | |
| | National | BELGIUM | | 2.5 | 1 | 7.6 | 3 | | |
| | CHE | SWITZERLAND | | | | 10 | 4 | | |
| | Malaysia OEL | MALAYSIA | | 7.5 | 3 | | | | |
| | National | ESTONIA | | 2.5 | 1 | 7.6 | 3 | | |
| | National | LATVIA | | 0.5 | 0.2 | 7.6 | 3 | | |
| | National | SLOVAKIA | | 2.5 | 1 | | | | |
| | National | SLOVENIA | | 2.5 | 1 | 7.6 | 3 | | |
| | National | UNITED KINGDOM | | 2.5 | 1 | 7.6 | 3 | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | National | BULGARIA | | 2.5 | 1 | 7.6 | 3 | | |
| | TUR | TURKEY | | 2.5 | 1 | 7.6 | 3 | | |
| | National | CROATIA | | 2.5 | 1 | 7.6 | 3 | | |
| 1-methoxy-2-propanol | SUVA | None | | 375 | 100 | 568 | 150 | | |
| | National | SWEDEN | | 190 | 50 | 300 | 75 | | SWEDEN, Short-term value, 15 minutes average value |
| | National | FINLAND | | 370 | 100 | 560 | 150 | | FINLAND, hud |
| | National | NORWAY | | 180 | 50 | | | | NORWAY, H |
| | NDS | None | | 180 | | | | | |
| | NDSCh | None | | 360 | | | | | |
| | National | NORWAY | | 185 | 50 | 370 | 100 | | |
| | EU | None | | 375 | 100 | 563 | 150 | | Skin |
| | ACGIH | None | | | 50 | | 100 | | A4 - Eye and URT irr |
| | DFG | GERMANY | C | | | 740 | 200 | | |
| | ACGIH | | | | 50 | | 100 | | A4 - Not Classifiable as a Human Carcinogen;eye and upper respiratory tract irritation |
| | National | SWEDEN | | 190 | 50 | | | | |
| | National | FRANCE | | 188 | 50 | 375 | 100 | | |
| | National | SPAIN | | 375 | 100 | 568 | 150 | | |
| | National | GREECE | | 360 | 100 | 1080 | 300 | | |
| | National | DENMARK | | 185 | 50 | | | | |
| | National | FINLAND | | 370 | 100 | 560 | 150 | | |
| | National | GERMANY | | 370 | 100 | | | | |
| | National | PORTUGAL | | 375 | 100 | 568 | 150 | | |
| | National | NORWAY | | 180 | 50 | 225 | 75 | | |
| | National | BELGIUM | | 375 | 100 | 568 | 150 | | |
| | NDS | POLAND | | 180 | | | | | |
| | NDSCh | POLAND | | | | 360 | | | |
| | CHE | SWITZERLAND | | | | 720 | 200 | | |
| | NDS | NETHERLANDS | | 375 | | 563 | | | |
| | National | CZECH REPUBLIC | | 270 | | | | | |
| | National | HUNGARY | | 375 | | 568 | | | |
| | Malaysia OEL | MALAYSIA | | 369 | 100 | | | | |
| | National | ESTONIA | | 375 | 100 | 568 | 150 | | |
| | National | LATVIA | | 375 | 100 | 568 | 150 | | |
| | National | CZECH REPUBLIC | C | | | 550 | | | |
| | National | SLOVAKIA | C | | | 568 | | | |
| | National | SLOVAKIA | | 375 | 100 | | | | |
| | National | SLOVENIA | | 375 | 100 | 562.5 | 150 | | |
| | National | UNITED KINGDOM | | 375 | 100 | 560 | 150 | | |
| | National | BULGARIA | | 375.0 | 100 | 568.0 | 150 | | |
| | National | ROMANIA | | 375 | 100 | 568 | 150 | | |
| | TUR | TURKEY | | 375 | 100 | 568 | 150 | | |
| | National | LITHUANIA | | 190 | 50 | 300 | 75 | | |
| | National | CROATIA | | 375 | 100 | 568 | 150 | | |
| | EU | | | 375 | 100 | 568 | 150 | Indicative | Possibility of significant uptake through the skin |
| | National | BELGIUM | | 184 | 50 | 369 | 100 | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | National | SLOVENIA | | 375 | 100 | 568 | 150 | |
| sodium hydroxide; caustic soda | NDS | None | | 0.5 | | | | |
| | NDSCh | None | | 1 | | | | |
| | National | SWEDEN | C | 1 | | 2 | | SWEDEN, Ceiling limit value |
| | National | FINLAND | | | | 2 | | FINLAND, takvärde |
| | National | NORWAY | | 2 | | | | NORWAY, T |
| | ACGIH | None | C | | | 2 | | URT, eye, and skin irr |
| | National | NORWAY | | 2 | | 2 | | |
| | ACGIH | | C | | | 2 | | |
| | National | SWEDEN | | 1 | | | | |
| | National | FRANCE | | 2 | | | | |
| | National | SPAIN | | | | 2 | | |
| | National | GREECE | | 2 | | 2 | | |
| | National | DENMARK | C | | | 2 | | |
| | National | FINLAND | C | | | 2 | | |
| | National | NORWAY | C | | | 2 | | |
| | NDS | POLAND | | 0.5 | | | | |
| | NDSCh | POLAND | | | | 1 | | |
| | CHE | SWITZERLAND | | | | 2 | | |
| | National | CZECH REPUBLIC | | 1 | | | | |
| | National | HUNGARY | | 2 | | 2 | | |
| | Malaysia OEL | MALAYSIA | C | | | 2 | | |
| | National | PORTUGAL | C | | | 2 | | |
| | National | ESTONIA | | 1 | | 2 | | |
| | National | LATVIA | | 0.5 | | | | |
| | National | CZECH REPUBLIC | C | | | 2 | | |
| | National | SLOVAKIA | | 2 | | | | |
| | National | SLOVENIA | | 2 | | 2 | | |
| | National | UNITED KINGDOM | | | | 2 | | |
| | National | BULGARIA | | 2.0 | | | | |
| | National | LITHUANIA | C | | | 2 | | |
| | National | CROATIA | | | | 2 | | |

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

| Component | CAS-No. | PNEC Limit | Exposure Route | Exposure Frequency | Remark |
|---|---|---|---|---|---|
| benzyl alcohol | 100-51-6 | 1 mg/l | Fresh Water | | |
| | | 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 | | |
| dipropyleneglycol methyl ether | 34590-94-8 | 19 mg/l | Fresh Water | | |
| | | 1.9 mg/l | Marine water | | |
| | | 70.2 mg/kg | Freshwater | | |

| | | | |
|---|---|---|---|
| | | | sediments |
| | | 7.02 mg/kg | Marine water sediments |
| | | 4168 mg/l | Microorganisms in sewage treatments |
| | | 190 mg/l | Intermittent release |
| | | 2.74 mg/kg | Soil |
| 2-aminoethanol; ethanolamine | 141-43-5 | 0.085 mg/l | Fresh Water |
| | | 0.0085 mg/l | Marine water |
| | | 0.025 mg/l | Intermittent release |
| | | 0.425 mg/kg | Freshwater sediments |
| | | 0.0425 mg/kg | Marine water sediments |
| | | 0.035 mg/kg | Soil |
| | | 100 mg/l | Microorganisms in sewage treatments |
| 1-methoxy-2-propanol | 107-98-2 | 10.000000 mg/l | Fresh Water |
| | | 100.000000 mg/l | Intermittent release |
| | | 1.000000 mg/l | Marine water |
| | | 100.000000 mg/l | Microorganisms in sewage treatments |
| | | 52.300000 mg/kg | Freshwater sediments |
| | | 5.200000 mg/kg | Marine water sediments |
| | | 4.590000 mg/kg | Soil |

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

| Component | CAS-No. | Worker Industry | Worker Professional | Consumer | Exposure Route | Exposure Frequency | Remark |
|---|---|---|---|---|---|---|---|
| benzyl alcohol | 100-51-6 | | | 20 mg/kg | Human Oral | Short Term, systemic effects | |
| | | | | 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 | |
| dipropyleneglycol methyl ether | 34590-94-8 | 65 mg/kg | | 15 mg/kg | Human Dermal | Long Term, systemic effects | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 310 mg/m3 | | 37.2 mg/m3 | Human Inhalation | Long Term, systemic effects |
| | | | | 1.67 mg/kg | Human Oral | Long Term, systemic effects |
| 1-methoxy-2-propanol | 107-98-2 | | 369.000000 mg/m3 | | Human Inhalation | Long Term, systemic effects |
| | | | 553.500000 mg/m3 | | Human Inhalation | Short Term, systemic effects |
| | | | 553.500000 mg/m3 | | Human Inhalation | Short Term, local effects |
| | | | 183.000000 mg/kg | | Human Dermal | Long Term, systemic effects |
| | | | | 43.900000 mg/m3 | Human Inhalation | Long Term, systemic effects |
| | | | | 78.000000 mg/kg | Human Dermal | Long Term, systemic effects |
| | | | | 33.000000 mg/m3 | 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 >=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.

Hygienic and Technical measures

N.A.

Appropriate engineering controls:

N.A.

## SECTION 9: Physical and chemical properties

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

Physical state: Liquid

Appearance and colour: liquid transparent

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: 100 °C (212 °F)

Evaporation rate: N.A.

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

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.00 g/cm3

Solubility in water: yes
Solubility in oil: soluble
Partition coefficient (n-octanol/water): N.A.
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Viscosity: 15.00 mPA-s
Explosive properties: N.A.
Oxidizing properties: N.A.
Solid/gas flammability: N.A.

**9.2. Other information**

No additional 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 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 Skin Rabbit = 2000 mg/kg |
| | | LD50 Oral Rat = 1620 mg/kg |
| | | LC50 Inhalation Rat = 11.00000 mg/l 4h |
| | | LD50 Skin Rabbit = 2 g/kg |
| | | LC50 Inhalation Rat = 8.8 mg/l 4h |
| | | LD50 Oral Rat = 1230 mg/kg |
| | g) reproductive toxicity | NOAEL Rat = 1072 mg/m3 |
| dipropyleneglycol methyl ether | a) acute toxicity | LD50 Oral Rat = 5660 mg/kg |
| | | LD50 Skin Rabbit = 9500 mg/kg |
| | | LD50 Skin Rabbit = 9500 mg/kg |
| | | LD50 Oral Rat = 5.35 g/kg |
| | | LD50 Oral Rat = 5.35 g/kg |
| 2-aminoethanol; ethanolamine | a) acute toxicity | LD50 Oral Rat 2100 mg/kg |
| | | LD50 Skin Rabbit 1000 mg/kg |
| 1-methoxy-2-propanol | a) acute toxicity | LD50 Oral Rat = 5300 mg/kg |
| | | LD50 Skin Rabbit = 13000 mg/kg |
| | | LC50 Inhalation Rat = 28.8 mg/l 4h |
| | | LD50 Skin Rabbit = 13 g/kg |
| | | LC50 Inhalation Rat > 7559 ppm 6h |

| | | |
|---|---|---|
| | | LD50 Oral Rat = 5000 mg/kg |
| | h) STOT-single exposure | NOAEL Oral Rat = 919 mg/kg |
| | | NOAEL Inhalation Rat = 3.7 mg/kg |
| | | NOAEL Skin Rabbit > 1000 mg/kg |
| sodium hydroxide; caustic soda | a) acute toxicity | LD50 Oral Rat 2000 mg/kg |
| | | LD50 Skin Rabbit 1350 mg/kg |
| | | LD50 Oral Rabbit 500 mg/kg |
| | | LD50 Skin Rabbit = 1350 mg/kg |
| | | LD50 Oral Rat = 325 mg/kg |
| | | LD50 Skin Rabbit = 1350 mg/kg |
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | a) acute toxicity | LD50 Oral Rat = 1020 mg/kg |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) | a) acute toxicity | LC50 Inhalation Rat = 2.36000 mg/l 4h |
| | | LD50 Skin Rabbit = 660.00000 mg/kg |
| | | LD50 Oral Rat = 53.00000 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

Toxicological kinetics, metabolism and distribution information

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:

**List of components with eco-toxicological properties**

| Component | Ident. Numb. | Ecotox Infos |
|---|---|---|
| benzyl alcohol | 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 : EC50 Daphnia = 66 mg/L |
| | | b) Aquatic chronic toxicity : NOEC Daphnia = 51 mg/L - 21 d |

| | | |
|---|---|---|
| | | a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 460 mg/L 96h EPA |
| | | a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 10 mg/L 96h EPA |
| | | a) Aquatic acute toxicity : EC50 Daphnia water flea = 23 mg/L 48h |
| dipropyleneglycol methyl ether | CAS: 34590-94-8 - EINECS: 252-104-2 | a) Aquatic acute toxicity : LC50 Fish > 10000 mg/L 96 |
| | | a) Aquatic acute toxicity : LC50 Fish Pimephales promelas > 10000 mg/L 96h |
| | | a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 1919 mg/L 48h IUCLID |
| 2-aminoethanol; ethanolamine | CAS: 141-43-5 - EINECS: 205-483-3 - INDEX: 603-030-00-8 | a) Aquatic acute toxicity : EC50 Daphnia = 65 mg/L 48 |
| | | a) Aquatic acute toxicity : EC50 Algae = 22.00000 mg/L 72 |
| | | a) Aquatic acute toxicity : LC50 Fish = 349.00000 mg/L 96 |
| | | a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 227.00000 mg/L 96h IUCLID |
| | | a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio = 3684.00000 mg/L 96h IUCLID |
| | | a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 300.00000 mg/L 96h EPA |
| | | a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 114.00000 mg/L 96h EPA |
| | | a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 15.00000 mg/L 72h IUCLID |
| 1-methoxy-2-propanol | CAS: 107-98-2 - EINECS: 203-539-1 - INDEX: 603-064-00-3 | a) Aquatic acute toxicity : LC50 Fish = 5000 mg/L 96 |
| | | a) Aquatic acute toxicity : EC50 Daphnia = 23300 mg/L 48 |
| | | a) Aquatic acute toxicity : EC50 Algae > 1000 mg/L 96 |
| | | a) Aquatic acute toxicity : LC50 Bacteria > 1000 mg/L 3 |
| | | a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 20.8 g/l 96h IUCLID |
| | | a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 23300 mg/L 48h IUCLID |
| sodium hydroxide; caustic soda | CAS: 1310-73-2 - EINECS: 215-185-5 - INDEX: 011-002-00-6 | a) Aquatic acute toxicity : EC50 Daphnia = 76 mg/L 24 |
| | | a) Aquatic acute toxicity : EC50 Daphnia = 40.38 mg/L 48 |
| | | a) Aquatic acute toxicity : LC50 Fish = 99 mg/L 48 |
| | | a) Aquatic acute toxicity : LC50 Fish = 45.5 mg/L 96 |
| | | b) Aquatic chronic toxicity : NOEC Fish = 56 mg/L 96 |
| | | a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 45.4 mg/L 96h IUCLID |
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | CAS: 2634-33-5 - EINECS: 220-120-9 - INDEX: 613-088-00-6 | a) Aquatic acute toxicity : LC50 Fish = 2.15000 mg/L |
| | | b) Aquatic chronic toxicity : NOEC Algae = 0.04030 mg/L 72h |
| | | b) Aquatic chronic toxicity : EC50 Algae = 0.11000 mg/L 72h |
| | | b) Aquatic chronic toxicity : EC10 Algae = 0.04000 mg/L 72h |
| | | b) Aquatic chronic toxicity : EC50 Daphnia = 3.27000 mg/L 48h |
| | | NOEC Daphnia = 1.20000 mg/L 21d |

| | | |
|---|---|---|
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1) | CAS: 55965-84-9 - EINECS: 611-341-5 - INDEX: 613-167-00-5 | a) Aquatic acute toxicity : EC50 Daphnia = 0.12 mg/L 48 |
| | | a) Aquatic acute toxicity : LC50 Fish = 0.22 mg/L 96 |
| | | a) Aquatic acute toxicity : EC50 Algae = 0.048 mg/L 72 |
| | | b) Aquatic chronic toxicity : NOEC Algae = 0.0012 mg/L 72 |
| | | b) Aquatic chronic toxicity : NOEC Fish = 0.098 mg/L - 28 d |
| | | b) Aquatic chronic toxicity : NOEC Daphnia = 0.004 mg/L - 21 d |

**12.2. Persistence and degradability**

N.A.

**12.3. Bioaccumulative potential**

N.A.

**12.4. Mobility in soil**

N.A.

**12.5. Results of PBT and vPvB assessment**

No PBT/vPvB Ingredients are present

**12.6. Other adverse effects**

N.A.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

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

Not classified as dangerous in the meaning of transport regulations.

**14.1. UN number**

N.A.

**14.2. UN proper shipping name**

N.A.

**14.3. Transport hazard class(es)**

N.A.

**14.4. Packing group**

N.A.

**14.5. Environmental hazards**

N.A.

**14.6. Special precautions for user**

N.A.

Road and Rail ( ADR-RID ) :

N.A.

Air ( IATA ) :

N.A.

Sea ( IMDG ) :

N.A.

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

N.A.

## SECTION 15: Regulatory information

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

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. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
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. 2018/1480 (ATP 13 CLP)
Provisions related to directive EU 2012/18 (Seveso III):

N.A.

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

Restrictions related to the product: 3, 40
Restrictions related to the substances contained: 30

**SVHC Substances:**

No data available

**German Water Hazard Class (WGK)**

N.A.

**Regulation (EC) nr 648/2004 (Detergents)**

**Product contents:**

| Category: | Qty: |
|---|---|
| anionic surfactants | < 5% |

**15.2. Chemical safety assessment**

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

## SECTION 16: Other information

| Code | Description |
|---|---|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |

| Code | Hazard class and hazard category | Description |
|---|---|---|
| 2.6/3 | Flam. Liq. 3 | Flammable liquid, Category 3 |
| 3.1/4/Dermal | Acute Tox. 4 | Acute toxicity (dermal), Category 4 |
| 3.1/4/Inhal | Acute Tox. 4 | Acute toxicity (inhalation), Category 4 |
| 3.1/4/Oral | Acute Tox. 4 | Acute toxicity (oral), Category 4 |
| 3.2/1B | Skin Corr. 1B | Skin corrosion, Category 1B |
| 3.2/2 | Skin Irrit. 2 | Skin irritation, Category 2 |
| 3.3/2 | Eye Irrit. 2 | Eye irritation, Category 2 |
| 3.8/3 | STOT SE 3 | Specific target organ toxicity — single exposure, 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 |
|---|---|
| 3.2/2 | Calculation method |
| 3.3/2 | 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.