

## Safety Data Sheet

### ULTRACARE KERAPOXY CLEANER

Safety Data Sheet dated 18/09/2026 version 7



## 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

UFI: W9E3-J00Y-U00E-KQF3

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

Recommended use: Cleaner

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

Responsable: [sicurezza@mapei.it](mailto: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 Dam. 1 Causes serious eye damage.

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

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

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

#### Precautionary statements

P261 Avoid breathing mist/vapours/spray.

P264 Wash skin thoroughly after handling.

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

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.

P333+P313 If skin irritation or rash occurs: 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.

#### Contains

benzyl alcohol

2-aminoethanol

sodium hydroxide; caustic soda

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

None.

#### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

Other Hazards: No other hazards

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not Relevant

#### 3.2. Mixtures

Mixture identification: ULTRACARE KERAPOXY CLEANER

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

| Qty                        | Name                                                                                                                                   | Ident. Numb.                                         | Classification                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $\geq 15 - < 20 \%$        | benzyl alcohol                                                                                                                         | CAS:100-51-6<br>EC:202-859-9<br>Index:603-057-00-5   | Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1B, H317<br><br>Acute Toxicity Estimate:<br>ATE - Oral: 1200 mg/kg bw                                                                                                                                                                                                                                          |
| $\geq 1 - < 2.5 \%$        | 2-aminoethanol                                                                                                                         | CAS:141-43-5<br>EC:205-483-3<br>Index:603-030-00-8   | Skin Corr. 1B, H314; STOT SE 3, H335;<br>Acute Tox. 4, H302; Acute Tox. 4, H312;<br>Acute Tox. 4, H332; Aquatic Chronic 3, H412<br><br>Specific Concentration Limits:<br>$5\% \leq C < 100\%$ : STOT SE 3 H335                                                                                                                                                    |
| $\geq 1 - < 2.5 \%$        | sodium hydroxide; caustic soda                                                                                                         | CAS:1310-73-2<br>EC:215-185-5<br>Index:011-002-00-6  | Skin Corr. 1A, H314; Met. Corr. 1, H290<br><br>Specific Concentration Limits:<br>$5\% \leq C < 100\%$ : Skin Corr. 1A H314<br>$2\% \leq C < 5\%$ : Skin Corr. 1B H314<br>$0,5\% \leq C < 2\%$ : Skin Irrit. 2 H315<br>$0,5\% \leq C < 2\%$ : Eye Irrit. 2 H319                                                                                                    |
| $\geq 1 - < 2.5 \%$        | Alcohols, C12-14, ethoxylated propoxylated                                                                                             | CAS:68439-51-0<br>EC:614-484-1                       | Aquatic Chronic 3, H412                                                                                                                                                                                                                                                                                                                                           |
| $\geq 0.6 - < 1 \%$        | 1-methoxy-2-propanol                                                                                                                   | CAS:107-98-2<br>EC:203-539-1<br>Index:603-064-00-3   | Flam. Liq. 3, H226; STOT SE 3, H336                                                                                                                                                                                                                                                                                                                               |
| $\geq 0.016 - < 0.02 \%$   | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                                                               | CAS:2634-33-5<br>EC:220-120-9<br>Index:613-088-00-6  | Acute Tox. 2, H330; Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1A, H317;<br>Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302, M-Chronic:1, M-Acute:1<br><br>Specific Concentration Limits:<br>$C \geq 0,036\%$ : Skin Sens. 1A H317<br><br>Acute Toxicity Estimate:<br>ATE - Oral: 450mg/kg bw<br>ATE - Inhalation (Dust/mist): 0.21mg/l |
| $\geq 0.001 - < 0.0015 \%$ | 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<br>EC:611-341-5<br>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,                                                                                                                                                               |

Specific Concentration Limits:  
C ≥ 0,6%: Skin Corr. 1C H314  
0,06% ≤ C < 0,6%: Skin Irrit. 2 H315  
C ≥ 0,6%: Eye Dam. 1 H318  
0,06% ≤ C < 0,6%: Eye Irrit. 2 H319  
C ≥ 0,0015%: Skin Sens. 1A H317

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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.

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.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

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

In case of eyes contact:

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

Protect uninjured eye.

In case of Ingestion:

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

In case of Inhalation:

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

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

Eye irritation

Eye damages

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.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non emergency personnel:**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

**For emergency responders:**

Wear personal protection equipment.

### 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.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and cleaning up

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

Wash with plenty of water.

Retain contaminated washing water and dispose it.

### 6.4. Reference to other sections

See also section 8 and 13

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## 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.

### Advice on general occupational hygiene:

### 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

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Community Occupational Exposure Limits (OEL)

benzyl alcohol

|               |          |                |                                                                                    |
|---------------|----------|----------------|------------------------------------------------------------------------------------|
| CAS: 100-51-6 | DFG      | GERMANY        | Short Term: Ceiling - 44 mg/m <sup>3</sup> - 10 ppm                                |
|               | National | BULGARIA       | Long Term: 5 mg/m <sup>3</sup>                                                     |
|               | National | CZECH REPUBLIC | Long Term: 40 mg/m <sup>3</sup>                                                    |
|               |          |                | Short Term: Ceiling - 80 mg/m <sup>3</sup>                                         |
|               | National | GERMANY        | Long Term: 22 mg/m <sup>3</sup> - 5 ppm                                            |
|               | National | FINLAND        | Long Term: 45 mg/m <sup>3</sup> - 10 ppm                                           |
|               | National | LITHUANIA      | Long Term: 5 mg/m <sup>3</sup>                                                     |
|               | National | LATVIA         | Long Term: 5 mg/m <sup>3</sup>                                                     |
|               | National | SLOVENIA       | Long Term: 22 mg/m <sup>3</sup> - 5 ppm; Short Term: 44 mg/m <sup>3</sup> - 10 ppm |
|               | SUVA     | SWITZERLAND    | Long Term: 22 mg/m <sup>3</sup> - 5 ppm<br>Notes: R, SSc                           |
|               | NDS      | POLAND         | Long Term: 240 mg/m <sup>3</sup>                                                   |

2-aminoethanol

|               |       |                                                                                                    |
|---------------|-------|----------------------------------------------------------------------------------------------------|
| CAS: 141-43-5 | ACGIH | Long Term: 3 ppm; Short Term: 6 ppm<br>Notes: Eye and skin irr                                     |
|               |       | Long Term: 3 ppm; Short Term: 6 ppm<br>Notes: eye and skin irritation                              |
|               |       | Long Term: 3 ppm; Short Term: 6 ppm<br>Notes: eye and skin irritation                              |
|               | EU    | Long Term: 2,5 mg/m <sup>3</sup> - 1 ppm; Short Term: 7,6 mg/m <sup>3</sup> - 3 ppm<br>Notes: Skin |

|                  |                   |                                                                                                                       |
|------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------|
| Malaysi<br>a OEL | MALAYSIA          | Long Term: 7,5 mg/m3 - 3 ppm                                                                                          |
| CHE              | SWITZERLAN<br>D   | Short Term: 10 mg/m3 - 4 ppm                                                                                          |
| DFG              | GERMANY           | Short Term: Ceiling - 0,51 mg/m3 - 0,2 ppm                                                                            |
| National         | BELGIUM           | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 7,6 mg/m3 - 3 ppm                                                           |
| National         | BULGARIA          | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 7,6 mg/m3 - 3 ppm                                                           |
| National         | CZECH<br>REPUBLIC | Long Term: 2,5 mg/m3                                                                                                  |
|                  |                   | Short Term: Ceiling - 7,5 mg/m3                                                                                       |
| National         | GERMANY           | Long Term: 0,5 mg/m3 - 0,2 ppm                                                                                        |
| National         | DENMARK           | Long Term: 2,5 mg/m3 - 1 ppm                                                                                          |
| National         | SPAIN             | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 7,5 mg/m3 - 3 ppm                                                           |
| National         | ESTONIA           | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 7,6 mg/m3 - 3 ppm                                                           |
| National         | FINLAND           | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 7,6 mg/m3 - 3 ppm<br>Notes: FINLAND, hud                                    |
|                  |                   | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 7,6 mg/m3 - 3 ppm                                                           |
| National         | FRANCE            | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 7,6 mg/m3 - 3 ppm                                                           |
| National         | UNITED<br>KINGDOM | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 7,6 mg/m3 - 3 ppm                                                           |
| National         | GREECE            | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 7,6 mg/m3 - 3 ppm                                                           |
| National         | CROATIA           | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 7,6 mg/m3 - 3 ppm                                                           |
| National         | HUNGARY           | Long Term: 2,5 mg/m3; Short Term: 7,6 mg/m3                                                                           |
| National         | LITHUANIA         | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 7,6 mg/m3 - 3 ppm                                                           |
| National         | LATVIA            | Long Term: 0,5 mg/m3 - 0,2 ppm; Short Term: 7,6 mg/m3 - 3 ppm                                                         |
| National         | NORWAY            | Long Term: 2,5 mg/m3 - 1 ppm<br>Notes: H E                                                                            |
|                  |                   | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 5 mg/m3 - 2 ppm                                                             |
| National         | PORTUGAL          | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 7,6 mg/m3 - 3 ppm                                                           |
| National         | ROMANIA           | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 7,6 mg/m3 - 3 ppm                                                           |
| National         | SLOVAKIA          | Short Term: Ceiling - 7,6 mg/m3                                                                                       |
|                  |                   | Long Term: 2,5 mg/m3 - 1 ppm                                                                                          |
| National         | SLOVENIA          | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 7,6 mg/m3 - 3 ppm                                                           |
| National         | SWEDEN            | Long Term: 8 mg/m3 - 3 ppm; Short Term: 15 mg/m3 - 6 ppm<br>Notes: SWEDEN, Short-term value, 15 minutes average value |
|                  |                   | Long Term: 2,5 mg/m3 - 1 ppm                                                                                          |
| NDS              |                   | Long Term: 2,5 mg/m3                                                                                                  |
| NDS              | NETHERLAND<br>S   | Long Term: 2,5 mg/m3; Short Term: 7,6 mg/m3                                                                           |
| NDS              | POLAND            | Long Term: 2,5 mg/m3                                                                                                  |
| NDSch            |                   | Long Term: 7,5 mg/m3                                                                                                  |
| NDSch            | POLAND            | Short Term: 7,5 mg/m3                                                                                                 |
| TUR              | TURKEY            | Long Term: 2,5 mg/m3 - 1 ppm; Short Term: 7,6 mg/m3 - 3 ppm                                                           |

sodium hydroxide; caustic soda

|                  |                 |                                                                                          |
|------------------|-----------------|------------------------------------------------------------------------------------------|
| CAS: 1310-73-2   | ACGIH           | Short Term: Ceiling - 2 mg/m3<br>Notes: URT, eye, and skin irr                           |
|                  |                 | Short Term: Ceiling - 2 mg/m3<br>Notes: eye, skin and upper respiratory tract irritation |
| Malaysi<br>a OEL | MALAYSIA        | Short Term: Ceiling - 2 mg/m3                                                            |
| CHE              | SWITZERLAN<br>D | Short Term: 2 mg/m3                                                                      |
| National         | BULGARIA        | Long Term: 2 mg/m3                                                                       |

|                                       |                            |                                                                                                                                          |
|---------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1-methoxy-2-propanol<br>CAS: 107-98-2 | National CZECH<br>REPUBLIC | Long Term: 1 mg/m3                                                                                                                       |
|                                       |                            | Short Term: Ceiling - 2 mg/m3                                                                                                            |
|                                       | National DENMARK           | Short Term: Ceiling - 2 mg/m3                                                                                                            |
|                                       | National SPAIN             | Short Term: 2 mg/m3                                                                                                                      |
|                                       | National ESTONIA           | Long Term: 1 mg/m3; Short Term: 2 mg/m3                                                                                                  |
|                                       | National FINLAND           | Short Term: 2 mg/m3<br>Notes: FINLAND, takvärde                                                                                          |
|                                       |                            | Short Term: Ceiling - 2 mg/m3                                                                                                            |
|                                       | National FRANCE            | Long Term: 2 mg/m3                                                                                                                       |
|                                       | National UNITED<br>KINGDOM | Short Term: 2 mg/m3                                                                                                                      |
|                                       | National GREECE            | Long Term: 2 mg/m3; Short Term: 2 mg/m3                                                                                                  |
|                                       | National CROATIA           | Short Term: 2 mg/m3                                                                                                                      |
|                                       | National HUNGARY           | Long Term: 2 mg/m3; Short Term: 2 mg/m3                                                                                                  |
|                                       | National LITHUANIA         | Short Term: Ceiling - 2 mg/m3                                                                                                            |
|                                       | National LATVIA            | Long Term: 0,5 mg/m3                                                                                                                     |
|                                       | National NORWAY            | Long Term: 2 mg/m3<br>Notes: NORWAY, T                                                                                                   |
|                                       |                            | Long Term: 2 mg/m3; Short Term: 2 mg/m3<br>Short Term: Ceiling - 2 mg/m3                                                                 |
|                                       | National PORTUGAL          | Short Term: Ceiling - 2 mg/m3                                                                                                            |
|                                       | National SLOVAKIA          | Long Term: 2 mg/m3                                                                                                                       |
|                                       | National SLOVENIA          | Long Term: 2 mg/m3; Short Term: 2 mg/m3                                                                                                  |
|                                       | National SWEDEN            | Long Term: 1 mg/m3; Short Term: Ceiling - 2 mg/m3<br>Notes: SWEDEN, Ceiling limit value                                                  |
|                                       |                            | Long Term: 1 mg/m3                                                                                                                       |
|                                       | NDS                        | Long Term: 0,5 mg/m3                                                                                                                     |
|                                       | NDS POLAND                 | Long Term: 0,5 mg/m3                                                                                                                     |
|                                       | NDSCh                      | Long Term: 1 mg/m3                                                                                                                       |
|                                       | NDSCh POLAND               | Short Term: 1 mg/m3                                                                                                                      |
|                                       | ACGIH                      | Long Term: 50 ppm; Short Term: 100 ppm<br>Notes: A4 - Eye and URT irr                                                                    |
|                                       |                            | Long Term: 50 ppm; Short Term: 100 ppm<br>Notes: A4 - Not Classifiable as a Human Carcinogen; eye and upper respiratory tract irritation |
|                                       | EU                         | Long Term: 375 mg/m3 - 100 ppm; Short Term: 563 mg/m3 - 150 ppm<br>Notes: Skin                                                           |
|                                       | Malaysi<br>a OEL           | Long Term: 369 mg/m3 - 100 ppm                                                                                                           |
|                                       | CHE<br>D                   | Short Term: 720 mg/m3 - 200 ppm                                                                                                          |
|                                       | DFG GERMANY                | Short Term: Ceiling - 740 mg/m3 - 200 ppm                                                                                                |
|                                       | National BELGIUM           | Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm<br>Long Term: 184 mg/m3 - 50 ppm; Short Term: 369 mg/m3 - 100 ppm        |
|                                       | National BULGARIA          | Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm                                                                          |
|                                       | National CZECH<br>REPUBLIC | Long Term: 270 mg/m3                                                                                                                     |
|                                       |                            | Short Term: Ceiling - 550 mg/m3                                                                                                          |
|                                       | National GERMANY           | Long Term: 370 mg/m3 - 100 ppm                                                                                                           |
|                                       | National DENMARK           | Long Term: 185 mg/m3 - 50 ppm                                                                                                            |
|                                       | National SPAIN             | Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm                                                                          |
|                                       | National ESTONIA           | Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm                                                                          |

|                         |                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| National FINLAND        | Long Term: 370 mg/m <sup>3</sup> - 100 ppm; Short Term: 560 mg/m <sup>3</sup> - 150 ppm<br>Notes: FINLAND, hud                                     |
|                         | Long Term: 370 mg/m <sup>3</sup> - 100 ppm; Short Term: 560 mg/m <sup>3</sup> - 150 ppm                                                            |
| National FRANCE         | Long Term: 188 mg/m <sup>3</sup> - 50 ppm; Short Term: 375 mg/m <sup>3</sup> - 100 ppm                                                             |
| National UNITED KINGDOM | Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 560 mg/m <sup>3</sup> - 150 ppm                                                            |
| National GREECE         | Long Term: 360 mg/m <sup>3</sup> - 100 ppm; Short Term: 1080 mg/m <sup>3</sup> - 300 ppm                                                           |
| National CROATIA        | Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm                                                            |
| National HUNGARY        | Long Term: 375 mg/m <sup>3</sup> ; Short Term: 568 mg/m <sup>3</sup>                                                                               |
| National LITHUANIA      | Long Term: 190 mg/m <sup>3</sup> - 50 ppm; Short Term: 300 mg/m <sup>3</sup> - 75 ppm                                                              |
| National LATVIA         | Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm                                                            |
| National NORWAY         | Long Term: 180 mg/m <sup>3</sup> - 50 ppm<br>Notes: NORWAY, H                                                                                      |
|                         | Long Term: 185 mg/m <sup>3</sup> - 50 ppm; Short Term: 370 mg/m <sup>3</sup> - 100 ppm                                                             |
|                         | Long Term: 180 mg/m <sup>3</sup> - 50 ppm; Short Term: 225 mg/m <sup>3</sup> - 75 ppm                                                              |
| National PORTUGAL       | Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm                                                            |
| National ROMANIA        | Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm                                                            |
| National SLOVAKIA       | Short Term: Ceiling - 568 mg/m <sup>3</sup>                                                                                                        |
|                         | Long Term: 375 mg/m <sup>3</sup> - 100 ppm                                                                                                         |
| National SLOVENIA       | Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 562,5 mg/m <sup>3</sup> - 150 ppm                                                          |
|                         | Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm                                                            |
| National SWEDEN         | Long Term: 190 mg/m <sup>3</sup> - 50 ppm; Short Term: 300 mg/m <sup>3</sup> - 75 ppm<br>Notes: SWEDEN, Short-term value, 15 minutes average value |
|                         | Long Term: 190 mg/m <sup>3</sup> - 50 ppm                                                                                                          |
| SUVA                    | Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm                                                            |
| NDS                     | Long Term: 180 mg/m <sup>3</sup>                                                                                                                   |
| NDS NETHERLANDS         | Long Term: 375 mg/m <sup>3</sup> ; Short Term: 563 mg/m <sup>3</sup>                                                                               |
| NDS POLAND              | Long Term: 180 mg/m <sup>3</sup>                                                                                                                   |
| NDSch                   | Long Term: 360 mg/m <sup>3</sup>                                                                                                                   |
| NDSch POLAND            | Short Term: 360 mg/m <sup>3</sup>                                                                                                                  |
| TUR TURKEY              | Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm                                                            |

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

##### 2-aminoethanol

CAS: 141-43-5 Exposure Route: Fresh Water; PNEC Limit: 0,085 mg/l  
Exposure Route: Marine water; PNEC Limit: 0,0085 mg/l  
Exposure Route: Intermittent release; PNEC Limit: 0,025 mg/l  
Exposure Route: Freshwater sediments; PNEC Limit: 0,425 mg/kg  
Exposure Route: Marine water sediments; PNEC Limit: 0,0425 mg/kg  
Exposure Route: Soil; PNEC Limit: 0,035 mg/kg  
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l

##### 1-methoxy-2-propanol

CAS: 107-98-2 Exposure Route: Fresh Water; PNEC Limit: 10 mg/l  
Exposure Route: Intermittent release; PNEC Limit: 100 mg/l  
Exposure Route: Marine water; PNEC Limit: 1 mg/l  
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l  
Exposure Route: Freshwater sediments; PNEC Limit: 52,3 mg/kg  
Exposure Route: Marine water sediments; PNEC Limit: 5,2 mg/kg  
Exposure Route: Soil; PNEC Limit: 4,59 mg/kg

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

##### 1-methoxy-2-propanol

CAS: 107-98-2 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 369 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 553,5 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Professional: 553,5 mg/m<sup>3</sup>

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 183 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Consumer: 43,9 mg/m<sup>3</sup>

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Consumer: 78 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 33 mg/m<sup>3</sup>

## 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  $\geq 0,5$ mm; breakthrough time  $\geq 480$ min.

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

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

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

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

Gloves characteristics:

Appropriate gloves thickness and breakthrough time may differ depending on the specific use conditions. Make sure to use protective gloves adequate to the conditions of use.

CEN standard(s) information:

Suitable protective gloves must comply with the appropriate EN 374 standard(s)

### 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                               |
| Colour:                                                   | transparent                          |
| Odour:                                                    | Characteristic                       |
| Odour threshold:                                          | No data available                    |
| pH:                                                       | 11.00                                |
| Kinematic viscosity:                                      | $\leq 14$ mm <sup>2</sup> /s (40 °C) |
| Melting point/freezing point:                             | No data available                    |
| Boiling point or initial boiling point and boiling range: | No data available                    |
| Flash point:                                              | 100 °C (212 °F)                      |
| Lower and upper explosion limit:                          | No data available                    |
| Relative vapour density:                                  | No data available                    |

|                                                    |                        |
|----------------------------------------------------|------------------------|
| Vapour pressure:                                   | No data available      |
| Density and/or relative density:                   | 1.00 g/cm <sup>3</sup> |
| Solubility in water:                               | yes                    |
| Solubility in oil:                                 | soluble                |
| Partition coefficient n-octanol/water (log value): | No data available      |
| Auto-ignition temperature:                         | No data available      |
| Decomposition temperature:                         | No data available      |
| Flammability:                                      | No data available      |
| Volatile Organic compounds - VOCs =                | No data available      |

#### **Particle characteristics:**

|                |                   |
|----------------|-------------------|
| Particle size: | No data available |
|----------------|-------------------|

### **9.2. Other information**

|                               |                   |
|-------------------------------|-------------------|
| Evaporation rate:             | No data available |
| Viscosity:                    | 15.00 mPA-s       |
| 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<br>Based on available data, the classification criteria are not met |
| b) skin corrosion/irritation         | The product is classified: Skin Irrit. 2(H315)                                     |
| c) serious eye damage/irritation     | The product is classified: Eye Dam. 1(H318)                                        |
| d) respiratory or skin sensitisation | The product is classified: Skin Sens. 1B(H317)                                     |
| e) germ cell mutagenicity            | Not classified<br>Based on available data, the classification criteria are not met |
| f) carcinogenicity                   | Not classified<br>Based on available data, the classification criteria are not met |
| g) reproductive toxicity             | Not classified<br>Based on available data, the classification criteria are not met |
| h) STOT-single exposure              | Not classified<br>Based on available data, the classification criteria are not met |
| i) STOT-repeated exposure            | Not classified<br>Based on available data, the classification criteria are not met |
| j) aspiration hazard                 | Not classified<br>Based on available data, the classification criteria are not met |

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

benzyl alcohol

CAS: 100-51-6      a) acute toxicity      ATE - Oral: 1200 mg/kg bw  
LD50 Oral Rat = 1200, mg/kg

2-aminoethanol

CAS: 141-43-5      a) acute toxicity      LD50 Oral Rat 2100 mg/kg  
LD50 Skin Rabbit 1000 mg/kg

sodium hydroxide; caustic soda

CAS: 1310-73-2      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

Alcohols, C12-14, ethoxylated propoxylated

CAS: 68439-51-0      a) acute toxicity      LD50 Oral Rat > 2000 mg/kg  
LD50 Skin Rat = 5000 mg/kg

1-methoxy-2-propanol

CAS: 107-98-2      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

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

CAS: 2634-33-5      a) acute toxicity      ATE - Oral: 450 mg/kg bw  
ATE - Inhalation (Dust/mist): 0.21 mg/l  
LD50 Oral Rat = 670, 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)

CAS: 55965-84-9      a) acute toxicity      LC50 Inhalation Rat = 2,36 mg/l 4h  
LD50 Skin Rabbit = 660, mg/kg  
LD50 Oral Rat = 53, mg/kg

## 11.2. Information on other hazards

### Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

---

## 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 Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

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

benzyl alcohol

CAS: 100-51-6      a) Aquatic acute toxicity: LC50 Fish Pimephales promelas = 460 mg/L 96h EPA

2-aminoethanol

CAS: 141-43-5      a) Aquatic acute toxicity: EC50 Daphnia = 65 mg/L 48

a) Aquatic acute toxicity: EC50 Algae = 22 mg/L 72

- a) Aquatic acute toxicity: LC50 Fish = 349 mg/L 96
- a) Aquatic acute toxicity: LC50 Fish Pimephales promelas = 227 mg/L 96h IUCLID
- a) Aquatic acute toxicity: LC50 Fish Brachydanio rerio = 3684 mg/L 96h IUCLID
- a) Aquatic acute toxicity: LC50 Fish Lepomis macrochirus 300 mg/L 96h EPA
- a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 114 mg/L 96h EPA
- a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus = 15 mg/L 72h IUCLID
- b) Aquatic chronic toxicity: NOEC Daphnia = 0,85 mg/L

sodium hydroxide; caustic soda

- CAS: 1310-73-2
- 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-methoxy-2-propanol

- CAS: 107-98-2
- 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

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

- CAS: 2634-33-5
- a) Aquatic acute toxicity: LC50 Fish = 2,15 mg/L
  - b) Aquatic chronic toxicity: NOEC Algae = 0,0403 mg/L 72h
  - b) Aquatic chronic toxicity: EC50 Algae = 0,11 mg/L 72h
  - b) Aquatic chronic toxicity: EC10 Algae = 0,04 mg/L 72h
  - b) Aquatic chronic toxicity: EC50 Daphnia = 3,27 mg/L 48h
  - NOEC Daphnia = 1,2 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
- 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 = 0,0052 mg/L 48h
  - b) Aquatic chronic toxicity: NOEC Algae = 0,00049 mg/L
  - 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

2-aminoethanol

CAS: 141-43-5      Readily biodegradable      Duration: 21d  
Notes: >90%

sodium hydroxide; caustic soda

CAS: 1310-73-2      Readily biodegradable

Alcohols, C12-14, ethoxylated propoxylated

CAS: 68439-51-0      Readily biodegradable      Duration: 28 d  
Notes: >60% OECD

1-methoxy-2-propanol

CAS: 107-98-2      Readily biodegradable      Duration: 28 d  
Notes: 86% - OCSE N.301 E

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

CAS: 2634-33-5      Non-readily biodegradable      Notes: OECD 301 C (63 d < 1%)

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)

**12.3. Bioaccumulative potential**

N.A.

**12.4. Mobility in soil**

N.A.

**12.5. Results of PBT and vPvB assessment**No PBT or vPvB substances present in concentration  $\geq 0.1\%$ No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$ **12.6. Endocrine disrupting properties**No endocrine disruptor substances present in concentration  $\geq 0.1\%$ **12.7. Other adverse effects**

N.A.

Not available

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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.

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.

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**SECTION 14: Transport information**

Not classified as dangerous in the meaning of transport regulations.

**14.1. UN number or ID number**

Not Applicable

**14.2. UN proper shipping name**

Not Applicable

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

Not Applicable

**14.4. Packing group**

Not Applicable

**14.5. Environmental hazards**

Not Applicable

**14.6. Special precautions for user**

Not Applicable

Road and Rail (ADR-RID):

Not Applicable

Air (IATA):

Not Applicable

Sea (IMDG):

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) 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. 2018/1480 (ATP 13 CLP)                | Regulation (EU) n. 2019/521 (ATP 12 CLP)                     |
| Regulation (EU) n. 2020/217 (ATP 14 CLP)                 | Regulation (EU) n. 2020/1182 (ATP 15 CLP)                    |
| Regulation (EU) n. 2021/643 (ATP 16 CLP)                 | Regulation (EU) n. 2021/849 (ATP 17 CLP)                     |
| Regulation (EU) n. 2022/692 (ATP 18 CLP)                 | Regulation (EU) n. 2023/707                                  |
| Regulation (EU) n. 2023/1434 (ATP 19 CLP)                | Regulation (EU) n. 2023/1435 (ATP 20 CLP)                    |
| Regulation (EU) n. 2024/197 (ATP 21 CLP)                 | Regulation (EU) n. 2024/2564 (ATP 22 CLP)                    |
| Regulation (EU) n. 2024/2865                             | Regulation (EU) n. 2025/1222 (ATP 23 CLP)                    |
| Provisions related to directive EU 2012/18 (Seveso III): |                                                              |
| None                                                     |                                                              |

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: 30, 40, 70, 75

SVHC Substances:

SVHC substances not present in a concentration ≥ 0.1% (w/w)

National regulations

Produktregisteret Norge: 660566  
MAL-kode: 3-4 (1993)  
Lagerklasse (TRGS-510): 12 - Non-combustible liquids, that cannot be assigned to any of the aforementioned LGK

German Water Hazard Class.

1

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

Product contents:

|                       |        |
|-----------------------|--------|
| Category:             | Qty:   |
| non-ionic surfactants | < 5%   |
| Perfumes              | 15-30% |

Allergens:

benzyl alcohol

Preservatives:

Benzisothiazolinone  
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)  
2-methyl-1,2-benzothiazol-3(2H)-one

Regulation (UE) 2019/1148 (Explosive precursors): No substances contained

Regulation (CE) 273/2004 and 111/2005 (Drug precursors): No substances contained

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. |
| H226   | Flammable liquid and vapour.        |

|      |                                                       |
|------|-------------------------------------------------------|
| H290 | May be corrosive to metals.                           |
| H301 | Toxic if swallowed.                                   |
| H302 | Harmful if swallowed.                                 |
| H310 | Fatal in contact with skin.                           |
| H312 | Harmful in contact with skin.                         |
| 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.                        |
| H330 | Fatal if inhaled.                                     |
| H332 | Harmful if inhaled.                                   |
| H335 | May cause respiratory irritation.                     |
| H336 | May cause drowsiness or dizziness.                    |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects.    |

| Code         | Hazard class and hazard category | Description                                                  |
|--------------|----------------------------------|--------------------------------------------------------------|
| 2.16/1       | Met. Corr. 1                     | Substance or mixture corrosive to metals, Category 1         |
| 2.6/3        | Flam. Liq. 3                     | Flammable liquid, Category 3                                 |
| 3.1/2/Dermal | Acute Tox. 2                     | Acute toxicity (dermal), Category 2                          |
| 3.1/2/Inhal  | Acute Tox. 2                     | Acute toxicity (inhalation), Category 2                      |
| 3.1/3/Oral   | Acute Tox. 3                     | Acute toxicity (oral), 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                            |
| 3.2/1A       | 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                                   |
| 3.4.2/1A     | Skin Sens. 1A                    | Skin Sensitisation, Category 1A                              |
| 3.4.2/1B     | Skin Sens. 1B                    | Skin Sensitisation, Category 1B                              |
| 3.8/3        | STOT SE 3                        | Specific target organ toxicity — single exposure, Category 3 |
| 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/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**

|                     |                    |
|---------------------|--------------------|
| Skin Irrit. 2, H315 | Calculation method |
| Eye Dam. 1, H318    | Calculation method |
| Skin Sens. 1B, H317 | 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: Keep Away From Heat  
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.

**Paragraphs modified from the previous revision:**

- Safety Data Sheet
- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 15: Regulatory information
- SECTION 16: Other information