

Revision date 20/12/2023

Revision Number 2.7

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

|                                 |                                         |
|---------------------------------|-----------------------------------------|
| Product Name                    | Safewash Super                          |
| Product Code(s)                 | SWAS, ESWAS05L, ESWAS25L, ESWAS200L, ZE |
| Safety data sheet number        | 00817                                   |
| Unique Formula Identifier (UFI) | 1482-U0KU-3006-GGRN                     |
| Pure substance/mixture          | Mixture                                 |

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

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Recommended use      | Cleaning agent                                  |
| Uses advised against | No specific uses advised against are identified |

**1.3. Details of the supplier of the safety data sheet**

| <b><u>Manufacturer</u></b>                                                                                                                                                                                                    | <b><u>Supplier</u></b>                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ELECTROLUBE<br>MacDermid Alpha Electronics Solutions<br>ASHBY PARK, COALFIELD WAY,<br>ASHBY DE LA ZOUCH,<br>LEICESTERSHIRE LE65 1JR<br>UNITED KINGDOM<br><br>+44 (0)1530 419600<br>+44 (0)1530 416640<br>info@electrolube.com | Simpex Electronic AG<br>Binzackerstrasse 33<br>CH-8620 Wetzikon<br>P +41 44 931 10 10 |

For further information, please contact

|                |                      |
|----------------|----------------------|
| E-mail address | info@electrolube.com |
|----------------|----------------------|

**1.4. Emergency telephone number**

|                     |                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------|
| Emergency Telephone | POISON INFORMATION CENTRE (Beaumont Hospital, Republic of Ireland only) +353 (0)1 809 2166 (08:00 - 22:00) |
|---------------------|------------------------------------------------------------------------------------------------------------|

**Emergency Telephone - IN CASE OF EMERGENCY CALL: +44 1865 407333 (24hr, Provided by Carechem 24)****SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**  
***Classification according to***

**Regulation (EC) No. 1272/2008 [CLP]**

|                                   |                        |
|-----------------------------------|------------------------|
| Skin corrosion/irritation         | Category 1 - (H314)    |
| Serious eye damage/eye irritation | Category 1 - (H318)    |
| Reproductive toxicity             | Category 1B - (H360Df) |

**2.2. Label elements**

Contains Tetrahydrofurfuryl alcohol, Alcohol C9-11, ethoxylated, 2-Aminoethanol, Diethanolamine, Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, Sodium Metasilicate Pentahydrate, Tetrasodium ethylene diamine tetraacetate, Sodium hydroxide



**Signal word**

Danger

**Hazard statements**

H314 - Causes severe skin burns and eye damage

H360Df - May damage the unborn child. Suspected of damaging fertility

**Precautionary Statements - EU (§28, 1272/2008)**

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

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

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

**2.3. Other hazards**

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable

**3.2 Mixtures**

| Chemical name      | Weight-% | REACH registration number | EC No (EU Index No) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|--------------------|----------|---------------------------|---------------------|-----------------------------------------------------------------|------------------------------------|----------|----------------------|
| Tetrahydrofurfuryl | 10-30    | 01-2119968921-26-00       | 202-625-6           | Repr. 1B (H360Df)                                               | -                                  | -        | -                    |

|                                                                              |       |                           |           |                                                                                                                                    |                                                                                                                              |   |   |
|------------------------------------------------------------------------------|-------|---------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---|---|
| alcohol<br>97-99-4                                                           |       | 00                        |           | Eye Irrit. 2 (H319)                                                                                                                |                                                                                                                              |   |   |
| Alcohol C9-11,<br>ethoxylated<br>68439-46-3                                  | 5-10  | No data available         | 614-482-0 | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)                                                                                           | -                                                                                                                            | - | - |
| 2,2',2''-Nitrilotriethanol<br>102-71-6                                       | 1-5   | 01-2119486482-31-00<br>00 | 203-049-8 | [C]                                                                                                                                | -                                                                                                                            | - | - |
| 2-Aminoethanol<br>141-43-5                                                   | 1-5   | 01-2119486455-28-00<br>00 | 205-483-3 | Skin Corr. 1B (H314)<br>Acute Tox. 4 (H332)<br>Acute Tox. 4 (H302)<br>Acute Tox. 4 (H312)<br>STOT SE 3 (H335)<br>Eye Dam. 1 (H318) | STOT SE 3 ::<br>C>=5%                                                                                                        | - | - |
| Benzenesulfonic<br>acid, C10-13-alkyl<br>derivs., sodium salts<br>68411-30-3 | 0.1-1 | 01-2119489428-22-00<br>38 | 270-115-0 | Aquatic Chronic 3<br>(H412)<br>Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)                                    | -                                                                                                                            | - | - |
| Sodium hydroxide<br>1310-73-2                                                | <0.1  | No data available         | 215-185-5 | Skin Corr. 1A (H314)<br>Eye Dam. 1 (H318)                                                                                          | Eye Irrit. 2 ::<br>0.5%<=C<2%<br>Skin Corr. 1A ::<br>C>=5%<br>Skin Corr. 1B ::<br>2%<=C<5%<br>Skin Irrit. 2 ::<br>0.5%<=C<2% | - | - |
| Trisodium<br>nitrilotriacetate<br>5064-31-3                                  | <0.1  | 01-2119519239-36-00<br>00 | 225-768-6 | Eye Irrit. 2 (H319)<br>Acute Tox. 4 (H302)<br>Carc. 2 (H351)                                                                       | Carc. 2 ::<br>C>=5%                                                                                                          | - | - |

*Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes*

[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

**Full text of H- and EUH-phrases: see section 16**

#### **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name                                                                | Oral LD50 mg/kg | Dermal LD50<br>mg/kg | Inhalation LC50 - 4<br>hour - dust/mist - mg/L | Inhalation LC50 - 4<br>hour - vapour - mg/L | Inhalation LC50 - 4<br>hour - gas - ppm |
|------------------------------------------------------------------------------|-----------------|----------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------|
| Tetrahydrofurfuryl alcohol<br>97-99-4                                        | 1600            | No data available    | No data available                              | No data available                           | No data available                       |
| Alcohol C9-11,<br>ethoxylated<br>68439-46-3                                  | 1400            | No data available    | No data available                              | No data available                           | No data available                       |
| 2,2',2''-Nitrilotriethanol<br>102-71-6                                       | 4190            | 20000                | No data available                              | No data available                           | No data available                       |
| 2-Aminoethanol<br>141-43-5                                                   | 1720            | 1000                 | 1.95                                           | No data available                           | No data available                       |
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3 | 404             | 2000                 | No data available                              | No data available                           | No data available                       |
| Sodium hydroxide<br>1310-73-2                                                | 325             | 1350                 | No data available                              | No data available                           | No data available                       |
| Trisodium nitrilotriacetate                                                  | 1100            | No data available    | No data available                              | No data available                           | No data available                       |

| Chemical name | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---------------|-----------------|-------------------|---------------------------------------------|------------------------------------------|--------------------------------------|
| 5064-31-3     |                 |                   |                                             |                                          |                                      |

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>                     | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Inhalation</b>                         | Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention. |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.                                                                                                                                                                                                               |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.                                                                                                                                                                                                                                                                                                                                  |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.                                                                                                                                                                                                                                                                                                                                            |
| <b>Self-protection of the first aider</b> | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).                                                                                                                                        |

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

|                            |                    |
|----------------------------|--------------------|
| <b>Symptoms</b>            | Burning sensation. |
| <b>Effects of Exposure</b> | None.              |

### 4.3. Indication of any immediate medical attention and special treatment needed

|                        |                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Note to doctors</b> | Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                     |                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b> | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|

**Large Fire**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media**

Do not scatter spilled material with high pressure water streams.

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical**

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours.

**5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**SECTION 6: Accidental release measures**

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

**Personal precautions**

Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Other information**

Refer to protective measures listed in Sections 7 and 8.

**For emergency responders**

Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

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

**Methods for containment**

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards**

Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

**Reference to other sections**

See section 8 for more information. See section 13 for more information.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and shoes.

**General hygiene considerations**

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be

allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

## 7.2. Conditions for safe storage, including any incompatibilities

### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

### Storage class (TRGS 510)

LGK 6.1C.

## 7.3. Specific end use(s)

### Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

### Exposure Limits

| Chemical name                         | European Union                                                                              | Austria                                                                                             | Belgium                                                                                        | Bulgaria                                                                                     | Croatia                                                                                        |
|---------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 2,2',2"-Nitrilotriethanol<br>102-71-6 | -                                                                                           | TWA: 0.8 ppm<br>TWA: 5 mg/m <sup>3</sup><br>STEL 1.6 ppm<br>STEL 10 mg/m <sup>3</sup><br>S+         | TWA: 5 mg/m <sup>3</sup>                                                                       | -                                                                                            | -                                                                                              |
| 2-Aminoethanol<br>141-43-5            | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>*                                               | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL 3 ppm<br>STEL 7.6 mg/m <sup>3</sup><br>Sh+         | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>D*   | STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>K* | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>*    |
| Diethanolamine<br>111-42-2            | -                                                                                           | TWA: 0.46 ppm<br>TWA: 2 mg/m <sup>3</sup><br>STEL 0.92 ppm<br>STEL 4 mg/m <sup>3</sup><br>H*<br>Sh+ | TWA: 0.2 ppm<br>TWA: 1 mg/m <sup>3</sup><br>D*                                                 | TWA: 10 mg/m <sup>3</sup>                                                                    | TWA: 3 ppm<br>TWA: 15 mg/m <sup>3</sup><br>*                                                   |
| Sodium hydroxide<br>1310-73-2         | -                                                                                           | TWA: 2 mg/m <sup>3</sup><br>STEL 4 mg/m <sup>3</sup>                                                | TWA: 2 mg/m <sup>3</sup>                                                                       | TWA: 2.0 mg/m <sup>3</sup>                                                                   | STEL: 2 mg/m <sup>3</sup>                                                                      |
| Chemical name                         | Cyprus                                                                                      | Czech Republic                                                                                      | Denmark                                                                                        | Estonia                                                                                      | Finland                                                                                        |
| 2,2',2"-Nitrilotriethanol<br>102-71-6 | -                                                                                           | TWA: 5 mg/m <sup>3</sup><br>Ceiling: 10 mg/m <sup>3</sup><br>D*                                     | TWA: 0.5 ppm<br>TWA: 3.1 mg/m <sup>3</sup><br>STEL: 1 ppm<br>STEL: 6.2 mg/m <sup>3</sup>       | S+<br>TWA: 5 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup>                                 | TWA: 5 mg/m <sup>3</sup>                                                                       |
| 2-Aminoethanol<br>141-43-5            | *<br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup> | TWA: 2.5 mg/m <sup>3</sup><br>Ceiling: 7.5 mg/m <sup>3</sup><br>D*                                  | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>H*<br>STEL: 7.6 mg/m <sup>3</sup><br>STEL: 3 ppm   | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>A* | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>iho* |
| Diethanolamine<br>111-42-2            | -                                                                                           | TWA: 5 mg/m <sup>3</sup><br>Ceiling: 10 mg/m <sup>3</sup>                                           | TWA: 0.46 ppm<br>TWA: 2 mg/m <sup>3</sup><br>H*<br>STEL: 0.92 ppm<br>STEL: 4 mg/m <sup>3</sup> | TWA: 3 ppm<br>TWA: 5 mg/m <sup>3</sup><br>STEL: 6 ppm<br>STEL: 30 mg/m <sup>3</sup><br>A*    | TWA: 0.46 ppm<br>TWA: 2 mg/m <sup>3</sup><br>iho*                                              |

|                                          |                                                                                                    |                                                                                                 |                                                                                                                 |                                                                                                  |                                                                                                        |
|------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Sodium hydroxide<br>1310-73-2            | -                                                                                                  | TWA: 1 mg/m <sup>3</sup><br>Ceiling: 2 mg/m <sup>3</sup>                                        | Ceiling: 2 mg/m <sup>3</sup>                                                                                    | TWA: 1 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup>                                            | Ceiling: 2 mg/m <sup>3</sup>                                                                           |
| Chemical name                            | France                                                                                             | Germany TRGS                                                                                    | Germany DFG                                                                                                     | Greece                                                                                           | Hungary                                                                                                |
| 2,2',2"-Nitrilotriethanol<br>102-71-6    | -                                                                                                  | TWA: 1 mg/m <sup>3</sup>                                                                        | TWA: 1 mg/m <sup>3</sup><br>Peak: 1 mg/m <sup>3</sup>                                                           | -                                                                                                | -                                                                                                      |
| 2-Aminoethanol<br>141-43-5               | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>*        | TWA: 0.2 ppm<br>TWA: 0.5 mg/m <sup>3</sup><br>Sh+<br>H*<br>Skin sensitizer                      | TWA: 0.2 ppm<br>TWA: 0.51 mg/m <sup>3</sup><br>Peak: 0.2 ppm<br>Peak: 0.51 mg/m <sup>3</sup><br>skin sensitizer | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>*      | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>b*           |
| Diethanolamine<br>111-42-2               | TWA: 3 ppm<br>TWA: 15 mg/m <sup>3</sup>                                                            | TWA: 0.11 ppm<br>TWA: 0.5 mg/m <sup>3</sup><br>Sh+<br>H*                                        | TWA: 1 mg/m <sup>3</sup><br>Peak: 1 mg/m <sup>3</sup><br>*<br>skin sensitizer                                   | TWA: 3 ppm<br>TWA: 15 mg/m <sup>3</sup>                                                          | -                                                                                                      |
| Sodium hydroxide<br>1310-73-2            | TWA: 2 mg/m <sup>3</sup>                                                                           | -                                                                                               | -                                                                                                               | TWA: 2 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup>                                            | TWA: 1 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup>                                                  |
| Trisodium nitrilotriacetate<br>5064-31-3 | -                                                                                                  | TWA: 2 mg/m <sup>3</sup>                                                                        | TWA: 2 mg/m <sup>3</sup><br>Peak: 8 mg/m <sup>3</sup>                                                           | -                                                                                                | -                                                                                                      |
| Chemical name                            | Ireland                                                                                            | Italy MDLPS                                                                                     | Italy AIDII                                                                                                     | Latvia                                                                                           | Lithuania                                                                                              |
| 2,2',2"-Nitrilotriethanol<br>102-71-6    | TWA: 5 mg/m <sup>3</sup><br>STEL: 15 mg/m <sup>3</sup>                                             | -                                                                                               | TWA: 5 mg/m <sup>3</sup>                                                                                        | -                                                                                                | STEL: 10 mg/m <sup>3</sup><br>J+<br>TWA: 5 mg/m <sup>3</sup>                                           |
| 2-Aminoethanol<br>141-43-5               | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>Sk*      | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>cute* | TWA: 3 ppm<br>TWA: 7.5 mg/m <sup>3</sup><br>STEL: 6 ppm<br>STEL: 15 mg/m <sup>3</sup>                           | TWA: 0.2 ppm<br>TWA: 0.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>Ada* | STEL: 7.6 mg/m <sup>3</sup><br>STEL: 3 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>TWA: 1 ppm<br>O*           |
| Diethanolamine<br>111-42-2               | TWA: 0.2 ppm<br>TWA: 1 mg/m <sup>3</sup><br>STEL: 0.6 ppm<br>STEL: 3 mg/m <sup>3</sup><br>Sk*      | -                                                                                               | TWA: 1 mg/m <sup>3</sup><br>cute*                                                                               | -                                                                                                | STEL: 6 ppm<br>STEL: 30 mg/m <sup>3</sup><br>TWA: 3 ppm<br>TWA: 15 mg/m <sup>3</sup><br>O*             |
| Sodium hydroxide<br>1310-73-2            | STEL: 2 mg/m <sup>3</sup>                                                                          | -                                                                                               | Ceiling: 2 mg/m <sup>3</sup>                                                                                    | TWA: 0.5 mg/m <sup>3</sup>                                                                       | Ceiling: 2 mg/m <sup>3</sup>                                                                           |
| Chemical name                            | Luxembourg                                                                                         | Malta                                                                                           | Netherlands                                                                                                     | Norway                                                                                           | Poland                                                                                                 |
| 2,2',2"-Nitrilotriethanol<br>102-71-6    | -                                                                                                  | -                                                                                               | -                                                                                                               | TWA: 5 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup>                                           | -                                                                                                      |
| 2-Aminoethanol<br>141-43-5               | STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>Peau*    | STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>skin*<br>TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup> | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>H*                    | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 5 mg/m <sup>3</sup><br>H*       | STEL: 7.5 mg/m <sup>3</sup><br>TWA: 2.5 mg/m <sup>3</sup><br>skóra*                                    |
| Diethanolamine<br>111-42-2               | -                                                                                                  | -                                                                                               | -                                                                                                               | TWA: 3 ppm<br>TWA: 15 mg/m <sup>3</sup><br>STEL: 6 ppm<br>STEL: 22.5 mg/m <sup>3</sup>           | TWA: 9 mg/m <sup>3</sup><br>skóra*                                                                     |
| Sodium hydroxide<br>1310-73-2            | -                                                                                                  | -                                                                                               | -                                                                                                               | Ceiling: 2 mg/m <sup>3</sup>                                                                     | STEL: 1 mg/m <sup>3</sup><br>TWA: 0.5 mg/m <sup>3</sup>                                                |
| Trisodium nitrilotriacetate<br>5064-31-3 | -                                                                                                  | -                                                                                               | -                                                                                                               | -                                                                                                | TWA: 3.0 mg/m <sup>3</sup>                                                                             |
| Chemical name                            | Portugal                                                                                           | Romania                                                                                         | Slovakia                                                                                                        | Slovenia                                                                                         | Spain                                                                                                  |
| 2,2',2"-Nitrilotriethanol<br>102-71-6    | TWA: 5 mg/m <sup>3</sup>                                                                           | -                                                                                               | -                                                                                                               | -                                                                                                | TWA: 5 mg/m <sup>3</sup>                                                                               |
| 2-Aminoethanol<br>141-43-5               | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>Cutânea* | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>P*    | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>K*<br>Ceiling: 7.6 mg/m <sup>3</sup>                                | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>K*     | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.5 mg/m <sup>3</sup><br>vía dérmica* |

| Diethanolamine<br>111-42-2               | TWA: 1 mg/m <sup>3</sup><br>Cutânea*                                                                              | -                                                     | -                                                                                         | TWA: 0.5 mg/m <sup>3</sup><br>TWA: 0.11 ppm<br>STEL: 0.11 ppm<br>STEL: 0.5 mg/m <sup>3</sup><br>K* | TWA: 0.2 ppm<br>TWA: 1 mg/m <sup>3</sup><br>via dérmica*                                      |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Sodium hydroxide<br>1310-73-2            | Ceiling: 2 mg/m <sup>3</sup>                                                                                      | TWA: 1 mg/m <sup>3</sup><br>STEL: 3 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup>                                                                  | -                                                                                                  | STEL: 2 mg/m <sup>3</sup>                                                                     |
| Chemical name                            | Sweden                                                                                                            |                                                       | Switzerland                                                                               |                                                                                                    | United Kingdom                                                                                |
| 2,2',2"-Nitrilotriethanol<br>102-71-6    | Vägledande KGV: 10 mg/m <sup>3</sup><br>Vägledande KGV: 1.6 ppm<br>NGV: 5 mg/m <sup>3</sup><br>NGV: 0.8 ppm<br>H* |                                                       | TWA: 5 mg/m <sup>3</sup><br>STEL: 5 mg/m <sup>3</sup>                                     |                                                                                                    | -                                                                                             |
| 2-Aminoethanol<br>141-43-5               | Bindande KGV: 3 ppm<br>Bindande KGV: 7.5 mg/m <sup>3</sup><br>NGV: 1 ppm<br>NGV: 2.5 mg/m <sup>3</sup><br>H*      |                                                       | S+<br>TWA: 2 ppm<br>TWA: 5 mg/m <sup>3</sup><br>STEL: 4 ppm<br>STEL: 10 mg/m <sup>3</sup> |                                                                                                    | TWA: 1 ppm<br>TWA: 2.5 mg/m <sup>3</sup><br>STEL: 3 ppm<br>STEL: 7.6 mg/m <sup>3</sup><br>Sk* |
| Diethanolamine<br>111-42-2               | Vägledande KGV: 6 ppm<br>Vägledande KGV: 30 mg/m <sup>3</sup><br>NGV: 3 ppm<br>NGV: 15 mg/m <sup>3</sup><br>H*    |                                                       | S+<br>TWA: 1 mg/m <sup>3</sup><br>STEL: 1 mg/m <sup>3</sup><br>H*                         |                                                                                                    | -                                                                                             |
| Sodium hydroxide<br>1310-73-2            | Bindande KGV: 2 mg/m <sup>3</sup><br>NGV: 1 mg/m <sup>3</sup>                                                     |                                                       | TWA: 2 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup>                                     |                                                                                                    | STEL: 2 mg/m <sup>3</sup>                                                                     |
| Trisodium nitrilotriacetate<br>5064-31-3 | -                                                                                                                 |                                                       | TWA: 3 mg/m <sup>3</sup><br>STEL: 11 mg/m <sup>3</sup>                                    |                                                                                                    | -                                                                                             |

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL) - Workers**

| Chemical name                                                             | Oral | Dermal                                                     | Inhalation                                                      |
|---------------------------------------------------------------------------|------|------------------------------------------------------------|-----------------------------------------------------------------|
| Tetrahydrofurfuryl alcohol<br>97-99-4                                     | -    | 1 mg/kg bw/day [4] [6]                                     | 1.4 mg/m <sup>3</sup> [4] [6]                                   |
| Alcohol C9-11, ethoxylated<br>68439-46-3                                  | -    | 2080 mg/kg bw/day [4] [6]                                  | 294 mg/m <sup>3</sup> [4] [6]                                   |
| 2,2',2"-Nitrilotriethanol<br>102-71-6                                     | -    | 7.5 mg/kg bw/day [4] [6]<br>140 µg/cm <sup>2</sup> [5] [6] | 1 mg/m <sup>3</sup> [5] [6]                                     |
| 2-Aminoethanol<br>141-43-5                                                | -    | 3 mg/kg bw/day [4] [6]                                     | 1 mg/m <sup>3</sup> [4] [6]<br>0.51 mg/m <sup>3</sup> [5] [6]   |
| Diethanolamine<br>111-42-2                                                | -    | 0.13 mg/kg bw/day [4] [6]                                  | 0.75 mg/m <sup>3</sup> [4] [6]<br>0.5 mg/m <sup>3</sup> [5] [6] |
| Benzenesulfonic acid, C10-13-alkyl<br>derivs., sodium salts<br>68411-30-3 | -    | 119 mg/kg bw/day [4] [6]                                   | 7.6 mg/m <sup>3</sup> [4] [6]                                   |
| Sodium hydroxide<br>1310-73-2                                             | -    | -                                                          | 1 mg/m <sup>3</sup> [5] [6]                                     |

[4] Systemic health effects.  
[5] Local health effects.  
[6] Long term.

**Derived No Effect Level (DNEL) - General Public**



| Chemical name                                                             | Oral                       | Dermal                        | Inhalation                                                         |
|---------------------------------------------------------------------------|----------------------------|-------------------------------|--------------------------------------------------------------------|
| Tetrahydrofurfuryl alcohol<br>97-99-4                                     | 0.175 mg/kg bw/day [4] [6] | -                             | 0.25 mg/m <sup>3</sup> [4] [6]                                     |
| Alcohol C9-11, ethoxylated<br>68439-46-3                                  | 25 mg/kg bw/day [4] [6]    | -                             | 87 mg/m <sup>3</sup> [4] [6]                                       |
| 2,2',2"-Nitrilotriethanol<br>102-71-6                                     | 3.3 mg/kg bw/day [4] [6]   | 70 µg/cm <sup>2</sup> [5] [6] | 0.4 mg/m <sup>3</sup> [5] [6]                                      |
| 2-Aminoethanol<br>141-43-5                                                | 1.5 mg/kg bw/day [4] [6]   | -                             | 0.18 mg/m <sup>3</sup> [4] [6]<br>0.28 mg/m <sup>3</sup> [5] [6]   |
| Diethanolamine<br>111-42-2                                                | 0.06 mg/kg bw/day [4] [6]  | -                             | 0.125 mg/m <sup>3</sup> [4] [6]<br>0.125 mg/m <sup>3</sup> [5] [6] |
| Benzenesulfonic acid, C10-13-alkyl<br>derivs., sodium salts<br>68411-30-3 | 0.425 mg/kg bw/day [4] [6] | -                             | 1.3 mg/m <sup>3</sup> [4] [6]                                      |
| Sodium hydroxide<br>1310-73-2                                             | -                          | -                             | 1 mg/m <sup>3</sup> [5] [6]                                        |

[4] Systemic health effects.  
[5] Local health effects.  
[6] Long term.

#### Predicted No Effect Concentration (PNEC)

| Chemical name                                                                | Freshwater   | Freshwater<br>(intermittent release) | Marine water | Marine water<br>(intermittent release) | Air |
|------------------------------------------------------------------------------|--------------|--------------------------------------|--------------|----------------------------------------|-----|
| Tetrahydrofurfuryl alcohol<br>97-99-4                                        | 1.9 mg/L     | 0.917 mg/L                           | 0.19 mg/L    | -                                      | -   |
| Alcohol C9-11, ethoxylated<br>68439-46-3                                     | 0.10379 mg/L | 0.014 mg/L                           | 0.10379 mg/L | -                                      | -   |
| 2,2',2"-Nitrilotriethanol<br>102-71-6                                        | 0.32 mg/L    | 5.12 mg/L                            | 0.032 mg/L   | -                                      | -   |
| 2-Aminoethanol<br>141-43-5                                                   | 0.07 mg/L    | 0.028 mg/L                           | 0.007 mg/L   | -                                      | -   |
| Diethanolamine<br>111-42-2                                                   | 0.021 mg/L   | 0.095 mg/L                           | 0.002 mg/L   | -                                      | -   |
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3 | 0.268 mg/L   | 0.0167 mg/L                          | 0.0268 mg/L  | -                                      | -   |

| Chemical name                            | Freshwater<br>sediment     | Marine sediment             | Sewage treatment | Soil                | Food chain      |
|------------------------------------------|----------------------------|-----------------------------|------------------|---------------------|-----------------|
| Tetrahydrofurfuryl alcohol<br>97-99-4    | 8.6 mg/kg sediment<br>dw   | 0.86 mg/kg<br>sediment dw   | 10 mg/L          | 0.6 mg/kg soil dw   | -               |
| Alcohol C9-11, ethoxylated<br>68439-46-3 | 13.7 mg/kg<br>sediment dw  | 13.7 mg/kg<br>sediment dw   | 1.4 mg/L         | 1 mg/kg soil dw     | -               |
| 2,2',2"-Nitrilotriethanol<br>102-71-6    | 1.7 mg/kg sediment<br>dw   | 0.17 mg/kg<br>sediment dw   | 10 mg/L          | 0.151 mg/kg soil dw | -               |
| 2-Aminoethanol<br>141-43-5               | 0.357 mg/kg<br>sediment dw | 0.0357 mg/kg<br>sediment dw | 100 mg/L         | 1.29 mg/kg soil dw  | -               |
| Diethanolamine                           | 0.092 mg/kg                | 0.0092 mg/kg                | 100 mg/L         | 1.63 mg/kg soil dw  | 1.04 mg/kg food |

| Chemical name                                                          | Freshwater sediment   | Marine sediment       | Sewage treatment | Soil             | Food chain |
|------------------------------------------------------------------------|-----------------------|-----------------------|------------------|------------------|------------|
| 111-42-2                                                               | sediment dw           | sediment dw           |                  |                  |            |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3 | 8.1 mg/kg sediment dw | 6.8 mg/kg sediment dw | 3.43 mg/L        | 35 mg/kg soil dw | -          |

## 8.2. Exposure controls

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engineering controls</b>            | Ensure adequate ventilation, especially in confined areas.                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Personal protective equipment</b>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Eye/face protection</b>             | Tight sealing safety goggles. Face protection shield. Eye protection must conform to standard EN 166.                                                                                                                                                                                                                                                                                                                                                 |
| <b>Hand protection</b>                 | Wear suitable gloves. Impervious gloves. Gloves must conform to standard EN 374.                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Skin and body protection</b>        | Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. (EN ISO 6529).                                                                                                                                                                                                                                                                                                                                                    |
| <b>Respiratory protection</b>          | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.                                                                                                                                                                                                                                                                              |
| <b>General hygiene considerations</b>  | Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. |
| <b>Environmental exposure controls</b> | No information available.                                                                                                                                                                                                                                                                                                                                                                                                                             |

## SECTION 9: Physical and chemical properties

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

|                        |                          |
|------------------------|--------------------------|
| <b>Physical state</b>  | Liquid                   |
| <b>Appearance</b>      | Liquid                   |
| <b>Colour</b>          | Colourless               |
| <b>Odour</b>           | Detergent.               |
| <b>Odour threshold</b> | No information available |

| <u>Property</u>                                | <u>Values</u>     | <u>Remarks • Method</u> |
|------------------------------------------------|-------------------|-------------------------|
| <b>Melting point / freezing point</b>          | -5 °C             | None known              |
| <b>Initial boiling point and boiling range</b> | 98 °C             | None known              |
| <b>Flammability</b>                            | No data available | None known              |
| <b>Flammability Limit in Air</b>               |                   | None known              |
| <b>Upper flammability or explosive limits</b>  | No data available |                         |
| <b>Lower flammability or explosive limits</b>  | No data available |                         |
| <b>Flash point</b>                             | No data available | None known              |
| <b>Autoignition temperature</b>                | No data available | None known              |
| <b>Decomposition temperature</b>               |                   | None known              |

|                            |                          |                                  |
|----------------------------|--------------------------|----------------------------------|
| pH                         | 11.7                     | pH (concentrated solution): 11.7 |
| pH (as aqueous solution)   | No data available        | None known                       |
| Kinematic viscosity        | No data available        | None known                       |
| Dynamic viscosity          | 5-10 mPa s @ 20°C/68°F   | None known                       |
| Water solubility           | Miscible in water        | None known                       |
| Solubility(ies)            | No data available        | None known                       |
| Partition coefficient      | No data available        | None known                       |
| Vapour pressure            | No data available        | None known                       |
| Relative density           | No data available        | None known                       |
| Bulk density               | 1.02 kg/l                |                                  |
| Liquid Density             | No data available        |                                  |
| Relative vapour density    | No data available        | None known                       |
| Particle characteristics   |                          |                                  |
| Particle Size              | No information available |                                  |
| Particle Size Distribution | No information available |                                  |

## 9.2. Other information

### 9.2.1. Information with regards to physical hazard classes

|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| Explosive properties | Not considered to be explosive.                             |
| Oxidising properties | Does not meet the criteria for classification as oxidizing. |

### 9.2.2. Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|            |                           |
|------------|---------------------------|
| Reactivity | No information available. |
|------------|---------------------------|

### 10.2. Chemical stability

|           |                                 |
|-----------|---------------------------------|
| Stability | Stable under normal conditions. |
|-----------|---------------------------------|

### Explosion data

|                                  |       |
|----------------------------------|-------|
| Sensitivity to mechanical impact | None. |
| Sensitivity to static discharge  | None. |

### 10.3. Possibility of hazardous reactions

|                                    |                               |
|------------------------------------|-------------------------------|
| Possibility of hazardous reactions | None under normal processing. |
|------------------------------------|-------------------------------|

### 10.4. Conditions to avoid

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| Conditions to avoid | Exposure to air or moisture over prolonged periods. |
|---------------------|-----------------------------------------------------|

### 10.5. Incompatible materials

|                        |                                |
|------------------------|--------------------------------|
| Incompatible materials | Acids. Bases. Oxidising agent. |
|------------------------|--------------------------------|

### 10.6. Hazardous decomposition products

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Hazardous decomposition products | None known based on information supplied. |
|----------------------------------|-------------------------------------------|

## SECTION 11: Toxicological information

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

#### Information on likely routes of exposure

##### Product Information

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.                                   |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.                                                                                                                                                                                                                                                                                         |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. |

#### Symptoms related to the physical, chemical and toxicological characteristics

|                 |                                                                   |
|-----------------|-------------------------------------------------------------------|
| <b>Symptoms</b> | Redness. Burning. May cause blindness. Coughing and/ or wheezing. |
|-----------------|-------------------------------------------------------------------|

#### Acute toxicity

##### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

|                                      |                 |
|--------------------------------------|-----------------|
| <b>ATEmix (oral)</b>                 | 7,491.70 mg/kg  |
| <b>ATEmix (dermal)</b>               | 44,296.00 mg/kg |
| <b>ATEmix (inhalation-gas)</b>       | 193,627.70 ppm  |
| <b>ATEmix (inhalation-vapour)</b>    | 473.30 mg/l     |
| <b>ATEmix (inhalation-dust/mist)</b> | 83.90 mg/l      |

##### Component Information

| Chemical name                                            | Oral LD50            | Dermal LD50              | Inhalation LC50        |
|----------------------------------------------------------|----------------------|--------------------------|------------------------|
| Tetrahydrofurfuryl alcohol                               | = 1600 mg/kg ( Rat ) | -                        | -                      |
| Alcohol C9-11, ethoxylated                               | = 1400 mg/kg ( Rat ) | -                        | -                      |
| 2,2',2"-Nitrilotriethanol                                | = 4190 mg/kg ( Rat ) | > 20000 mg/kg ( Rabbit ) | -                      |
| 2-Aminoethanol                                           | = 1720 mg/kg ( Rat ) | = 1000 mg/kg ( Rabbit )  | > 1.3 mg/L ( Rat ) 6 h |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | = 404 mg/kg ( Rat )  | > 2000 mg/kg ( Rat )     | -                      |
| Sodium hydroxide                                         | = 325 mg/kg ( Rat )  | = 1350 mg/kg ( Rabbit )  | -                      |
| Trisodium nitrilotriacetate                              | = 1100 mg/kg ( Rat ) | -                        | > 5 mg/L ( Rat ) 4 h   |

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|

#### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                                                                                          |                                                                                                  |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>                                                         | Classification based on data available for ingredients. Causes severe skin burns and eye damage. |
| <b>Serious eye damage/eye irritation</b>                                                 | Classification based on data available for ingredients. Causes serious eye damage. Causes burns. |
| <b>Respiratory or skin sensitisation</b>                                                 | Based on available data, the classification criteria are not met.                                |
| <b>Germ cell mutagenicity</b>                                                            | Based on available data, the classification criteria are not met.                                |
| <b>Carcinogenicity</b>                                                                   | Based on available data, the classification criteria are not met.                                |
| The table below indicates whether each agency has listed any ingredient as a carcinogen. |                                                                                                  |

| Chemical name               | European Union |
|-----------------------------|----------------|
| Trisodium nitrilotriacetate | Carc. 2        |

|                              |                                                                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reproductive toxicity</b> | Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child. |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

| Chemical name              | European Union |
|----------------------------|----------------|
| Tetrahydrofurfuryl alcohol | Repr. 1B       |

|                                 |                                                                   |
|---------------------------------|-------------------------------------------------------------------|
| <b>STOT - single exposure</b>   | Based on available data, the classification criteria are not met. |
| <b>STOT - repeated exposure</b> | Based on available data, the classification criteria are not met. |
| <b>Aspiration hazard</b>        | Based on available data, the classification criteria are not met. |

#### **11.2. Information on other hazards**

##### **11.2.1. Endocrine disrupting properties**

|                                        |                                                                                                                                                                                                                                                             |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endocrine disrupting properties</b> | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

##### **11.2.2. Other information**

|                              |                           |
|------------------------------|---------------------------|
| <b>Other adverse effects</b> | No information available. |
|------------------------------|---------------------------|

### **SECTION 12: Ecological information**

#### **12.1. Toxicity**

Ecotoxicity

Harmful to aquatic life.

| Chemical name                                            | Algae/aquatic plants                                                                                                                                                                        | Fish                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Toxicity to microorganisms | Crustacea                                         |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------|
| Tetrahydrofurfuryl alcohol                               | -                                                                                                                                                                                           | LC50: >101mg/L (96h, <i>Oryzias latipes</i> )                                                                                                                                                                                                                                                                                                                                                                                                             | -                          | -                                                 |
| 2,2',2''-Nitrilotriethanol                               | EC50: =216mg/L (72h, <i>Desmodesmus subspicatus</i> )<br>EC50: =169mg/L (96h, <i>Desmodesmus subspicatus</i> )                                                                              | LC50: 10600 - 13000mg/L (96h, <i>Pimephales promelas</i> )<br>LC50: >1000mg/L (96h, <i>Pimephales promelas</i> )<br>LC50: 450 - 1000mg/L (96h, <i>Lepomis macrochirus</i> )                                                                                                                                                                                                                                                                               | -                          | -                                                 |
| 2-Aminoethanol                                           | EC50: =15mg/L (72h, <i>Desmodesmus subspicatus</i> )                                                                                                                                        | LC50: =227mg/L (96h, <i>Pimephales promelas</i> )<br>LC50: =3684mg/L (96h, <i>Brachydanio rerio</i> )<br>LC50: 300 - 1000mg/L (96h, <i>Lepomis macrochirus</i> )<br>LC50: 114 - 196mg/L (96h, <i>Oncorhynchus mykiss</i> )<br>LC50: >200mg/L (96h, <i>Oncorhynchus mykiss</i> )                                                                                                                                                                           | -                          | EC50: =65mg/L (48h, <i>Daphnia magna</i> )        |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | EC50: =9mg/L (96h, <i>Desmodesmus subspicatus</i> )<br>EC50: =11mg/L (72h, <i>Pseudokirchneriella subcapitata</i> )<br>EC50: 4.29 - 12.5mg/L (96h, <i>Pseudokirchneriella subcapitata</i> ) | LC50: =5.1mg/L (96h, <i>Brachydanio rerio</i> )<br>LC50: 0.6 - 1.9mg/L (96h, <i>Brachydanio rerio</i> )<br>LC50: =2.2mg/L (96h, <i>Lepomis macrochirus</i> )<br>LC50: =0.7mg/L (96h, <i>Pimephales promelas</i> )<br>LC50: =3.4mg/L (96h, <i>Pimephales promelas</i> )<br>LC50: 3.8 - 6.6mg/L (96h, <i>Oncorhynchus mykiss</i> )                                                                                                                          | -                          | EC50: =0.63mg/L (48h, <i>Daphnia magna</i> )      |
| Sodium hydroxide                                         | -                                                                                                                                                                                           | LC50: =45.4mg/L (96h, <i>Oncorhynchus mykiss</i> )                                                                                                                                                                                                                                                                                                                                                                                                        | -                          | -                                                 |
| Trisodium nitrilotriacetate                              | -                                                                                                                                                                                           | LC50: 93 - 170mg/L (96h, <i>Pimephales promelas</i> )<br>LC50: 175 - 225mg/L (96h, <i>Lepomis macrochirus</i> )<br>LC50: =252mg/L (96h, <i>Lepomis macrochirus</i> )<br>LC50: =470mg/L (96h, <i>Pimephales promelas</i> )<br>LC50: 560 - 1000mg/L (96h, <i>Oryzias latipes</i> )<br>LC50: 72 - 133mg/L (96h, <i>Oncorhynchus mykiss</i> )<br>LC50: 560 - 1000mg/L (96h, <i>Poecilia reticulata</i> )<br>LC50: =114mg/L (96h, <i>Pimephales promelas</i> ) | -                          | LC50: 560 - 1000mg/L (48h, <i>Daphnia magna</i> ) |

12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

#### **Bioaccumulation**

##### **Component Information**

| Chemical name                                            | Partition coefficient |
|----------------------------------------------------------|-----------------------|
| Tetrahydrofurfuryl alcohol                               | -0.14                 |
| 2,2',2"-Nitrilotriethanol                                | -2.53                 |
| 2-Aminoethanol                                           | -2.3                  |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 1.4                   |

### 12.4. Mobility in soil

**Mobility in soil** No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

| Chemical name                                            | PBT and vPvB assessment         |
|----------------------------------------------------------|---------------------------------|
| Tetrahydrofurfuryl alcohol                               | The substance is not PBT / vPvB |
| Alcohol C9-11, ethoxylated                               | The substance is not PBT / vPvB |
| 2,2',2"-Nitrilotriethanol                                | The substance is not PBT / vPvB |
| 2-Aminoethanol                                           | The substance is not PBT / vPvB |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | The substance is not PBT / vPvB |
| Sodium hydroxide                                         | The substance is not PBT / vPvB |
| Trisodium nitrilotriacetate                              | The substance is not PBT / vPvB |

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## **SECTION 14: Transport information**

### IATA

**14.1 UN number or ID number** Not regulated

|                                   |                |
|-----------------------------------|----------------|
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

#### IMDG

|                                                              |                          |
|--------------------------------------------------------------|--------------------------|
| 14.1 UN number or ID number                                  | Not regulated            |
| 14.2 UN proper shipping name                                 | Not regulated            |
| 14.3 Transport hazard class(es)                              | Not regulated            |
| 14.4 Packing group                                           | Not regulated            |
| 14.5 Environmental hazards                                   | Not applicable           |
| 14.6 Special precautions for user                            |                          |
| Special Provisions                                           | None                     |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available |

#### RID

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

#### ADR

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

## SECTION 15: Regulatory information

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

#### National regulations

##### France

##### Occupational Illnesses (R-463-3, France)

| Chemical name                         | French RG number |
|---------------------------------------|------------------|
| 2,2',2''-Nitrilotriethanol - 102-71-6 | RG 49            |
| 2-Aminoethanol - 141-43-5             | RG 49, RG 49bis  |

##### Germany

Water hazard class (WGK) obviously hazardous to water (WGK 2)

##### Netherlands

| Chemical name | Netherlands - List of Carcinogens | Netherlands - List of Mutagens | Netherlands - List of Reproductive Toxins |
|---------------|-----------------------------------|--------------------------------|-------------------------------------------|
|---------------|-----------------------------------|--------------------------------|-------------------------------------------|



| Chemical name              | Netherlands - List of Carcinogens | Netherlands - List of Mutagens | Netherlands - List of Reproductive Toxins       |
|----------------------------|-----------------------------------|--------------------------------|-------------------------------------------------|
| Tetrahydrofurfuryl alcohol | -                                 | -                              | Fertility Category 2<br>Development Category 1B |

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name                           | Restricted substance per REACH Annex XVII                    | Substance subject to authorisation per REACH Annex XIV |
|-----------------------------------------|--------------------------------------------------------------|--------------------------------------------------------|
| Tetrahydrofurfuryl alcohol - 97-99-4    | Use restricted. See item 30.<br>Use restricted. See item 75. | -                                                      |
| 2-Aminoethanol - 141-43-5               | Use restricted. See item 75.                                 | -                                                      |
| Sodium hydroxide - 1310-73-2            | Use restricted. See item 75.                                 | -                                                      |
| Trisodium nitrilotriacetate - 5064-31-3 | Use restricted. See item 75.                                 | -                                                      |

#### Persistent Organic Pollutants

Not applicable

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### International Inventories

|               |                                                  |
|---------------|--------------------------------------------------|
| TSCA          | Contact supplier for inventory compliance status |
| DSL/NDL       | Contact supplier for inventory compliance status |
| EINECS/ELINCS | Contact supplier for inventory compliance status |
| ENCS          | Contact supplier for inventory compliance status |
| IECSC         | Contact supplier for inventory compliance status |
| KECI          | Contact supplier for inventory compliance status |
| PICCS         | Contact supplier for inventory compliance status |
| AIIC          | Contact supplier for inventory compliance status |
| NZIoC         | Contact supplier for inventory compliance status |

#### Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AIIC** - Australian Inventory of Industrial Chemicals
- NZIoC** - New Zealand Inventory of Chemicals

#### 15.2. Chemical safety assessment

**Chemical Safety Report** No information available

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H314 - Causes severe skin burns and eye damage  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H351 - Suspected of causing cancer  
H360Df - May damage the unborn child. Suspected of damaging fertility  
H373 - May cause damage to organs through prolonged or repeated exposure

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: Exposure controls/personal protection

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | Sk*  | Skin designation                 |
| +       | Sensitisers                 |      |                                  |

| Classification procedure                                        |                    |
|-----------------------------------------------------------------|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity                                             | Calculation method |
| Acute dermal toxicity                                           | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |
| Acute inhalation toxicity - vapour                              | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |
| Skin corrosion/irritation                                       | Calculation method |
| Serious eye damage/eye irritation                               | Calculation method |
| Respiratory sensitisation                                       | Calculation method |
| Skin sensitisation                                              | Calculation method |
| Mutagenicity                                                    | Calculation method |
| Carcinogenicity                                                 | Calculation method |
| STOT - single exposure                                          | Calculation method |
| STOT - repeated exposure                                        | Calculation method |
| Acute aquatic toxicity                                          | Calculation method |
| Chronic aquatic toxicity                                        | Calculation method |
| Aspiration hazard                                               | Calculation method |
| Ozone                                                           | Calculation method |

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
European Chemicals Agency (ECHA) (ECHA\_API)  
Environmental Protection Agency  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**

**Disclaimer**

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**End of Safety Data Sheet**