

## Safety data sheet

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

#### 1.1. Product identifier

Code: M8150, M8154  
Product name: CLEAN

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

Intended use: Detergent. Professional use only.

Uses advised against: no one in particular

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

Name: ILPA ADESIVI SRL  
Full address: Via Ferorelli, 4  
District and Country: 70132 BARI (BARI)  
ITALIA  
Tel. + 39 0805383837  
Fax + 39 0805377807

e-mail address of the competent person responsible for the Safety Data Sheet: aborricelli@ilpa.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to: + 39 3355405598 (Technical support - 8,00 - 17,00 - LUN-VEN; MON-FRI)(Italian time zone)  
Safety Executive (HSE) Chemicals Regulation Directorate 5S.1 Redgrave Court, Merton Road, Bootle, Merseyside. L20 7HS.  
Phone: +44 151 9513317

### SECTION 2. Hazards identification.

#### 2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

|                                |      |  |
|--------------------------------|------|--|
| Skin corrosion, category 1B    | H314 | Causes severe skin burns and eye damage. |
| Serious eye damage, category 1 | H318 | Causes serious eye damage.               |

#### 2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:

**H314** Causes severe skin burns and eye damage.

Precautionary statements:

**P280** Wear protective gloves / clothing and eye / face protection.  
**P301+P330+P331** IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P310** Immediately call a POISON CENTER / doctor

**Contains:** POTASSIUM HYDROXIDE  
ETHANOLAMINE

**2.3. Other hazards.**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**SECTION 3. Composition/information on ingredients.****3.1. Substances.**

Information not relevant.

**3.2. Mixtures.**

Contains:

| Identification.            | Conc. %. | Classification 1272/2008 (CLP).   |
|----------------------------|----------|---|
| <b>ETHANOLAMINE</b>        |          |   |
| CAS. 141-43-5              | 1,5 - 2  | Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314 |
| EC. 205-483-3              |          |   |
| INDEX. 603-030-00-8        |          |   |
| Reg. no. -                 |          |   |
| <b>POTASSIUM HYDROXIDE</b> |          |   |
| CAS. 1310-58-3             | 1 - 1,5  | Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1A H314                    |
| EC. 215-181-3              |          |   |
| INDEX. 019-002-00-8        |          |   |
| <b>PHOSPHORIC ACID</b>     |          |   |

CAS. 7664-38-2

0 - 0,05

Skin Corr. 1B H314, Note B

EC. 231-633-2

INDEX. 015-011-00-6

Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures.

### 4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

PROTECTIVE MEASURES FOR THE FIRST RESCUE WORKERS: for PPE (personal protection equipment) required for first aid refer to section 8.2 of this safety data sheet.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

## SECTION 5. Firefighting measures.

### 5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

### 5.3. Advice for firefighters.

**GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures.****6.1. Personal precautions, protective equipment and emergency procedures.**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions.**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections.**

Any information on personal protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage.****7.1. Precautions for safe handling.**

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

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

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

**7.3. Specific end use(s).**

No use other than specified in Section 1.2 of this safety data sheet.

**SECTION 8. Exposure controls/personal protection.****8.1. Control parameters.**

## Regulatory References:

|     |                  |  |
|-----|------------------|--|
| AUS | Österreich       | Grenzwerteverordnung 2011 - GKV 2011   |
| BEL | Belgique         | AR du 11/3/2002. La liste est mise à jour pour 2010  |
| BGR | България         | МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА<br>МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г                          |
| CHE | Suisse / Schweiz | Valeurs limites d'exposition aux postes de travail 2012. / Grenzwerte am Arbeitsplatz  |
| CYP | Κύπρος           | Κ.Δ.Π. 268/2001; Κ.Δ.Π. 55/2004; Κ.Δ.Π. 295/2007; Κ.Δ.Π. 70/2012   |
| CZE | Česká Republika  | Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci   |
| DEU | Deutschland      | MAK-und BAT-Werte-Liste 2012   |
| DNK | Danmark          | Graensevaerdier per stoffer og materialer  |
| ESP | España           | INSHT - Límites de exposición profesional para agentes químicos en España 2015   |
| EST | Eesti            | Töökeskkonna keemiliste ohutegurite piirnormid 1. Vastu võetud 18.09.2001 nr 293 RT I 2001, 77, 460 - Redaktsiooni jõustumise kp: 01.01.2008 |
| FIN | Suomi            | HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveysministeriön julkaisuja 2012:5                                       |
| FRA | France           | JORF n°0109 du 10 mai 2012 page 8773 texte n° 102  |
| GBR | United Kingdom   | EH40/2005 Workplace exposure limits  |
| GRC | Ελλάδα           | ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012   |
| HRV | Hrvatska         | NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva  |
| HUN | Magyarország     | 50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról  |
| IRL | Éire             | Code of Practice Chemical Agent Regulations 2011   |
| ITA | Italia           | Decreto Legislativo 9 Aprile 2008, n.81  |
| LTU | Lietuva          | DĖL LIETUVOS HIGIENOS NORMOS HN 23:2007 CHEMINIŲ MEDŽIAGŲ 2007 m. spalio 15 d. Nr. V-827/A1-287  |
| LVA | Latvija          | Ķīmisko vielu aroda ekspozīcijas robežvērtības (AER) darba vides gaisā 2012  |
| NLD | Nederland        | Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18   |
| NOR | Norge            | Veiledning om Administrative normer for forurensning i arbeidsatmosfære  |
| POL | Polska           | ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r  |
| SVK | Slovensko        | NARIADENIE VLÁDY Slovenskej republiky z 20. júna 2007  |
| SVN | Slovenija        | Uradni list Republike Slovenije 15. 6. 2007  |
| SWE | Sverige          | Occupational Exposure Limit Values, AF 2011:18   |
| TUR | Türkiye          | 2000/39/EC sayılı Direktifin ekidir  |
| EU  | OEL EU           | Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.   |
|     | TLV-ACGIH        | ACGIH 2014   |

**ETHANOLAMINE****Threshold Limit Value.**

| Type | Country | TWA/8h | STEL/15min |
|------|---------|--------|------------|
|------|---------|--------|------------|

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|           |     | mg/m3 | ppm | mg/m3 | ppm |       |
|-----------|-----|-------|-----|-------|-----|-------|
| MAK       | AUS | 2,5   | 1   | 7,6   | 3   | SKIN. |
| VLEP      | BEL | 2,5   | 1   | 7,6   | 3   | SKIN. |
| TLV       | BGR | 8     |     | 15    |     |       |
| VEL       | CHE | 5     | 2   | 10    | 4   |       |
| MAK       | CHE | 5     | 2   | 10    | 4   |       |
| TLV       | CZE | 2,5   |     | 7,5   |     | SKIN. |
| AGW       | DEU | 5,1   | 2   | 10,2  | 4   | SKIN. |
| MAK       | DEU | 5,1   | 2   | 10,2  | 4   |       |
| TLV       | DNK | 2,5   | 1   |       |     | SKIN. |
| VLA       | ESP | 2,5   | 1   | 7,5   | 3   | SKIN. |
| TLV       | EST | 2,5   | 1   | 7,6   | 3   | SKIN. |
| HTP       | FIN | 2,5   | 1   | 7,6   | 3   | SKIN. |
| VLEP      | FRA | 2,5   | 1   | 7,6   | 3   | SKIN. |
| WEL       | GBR | 2,5   | 1   | 7,6   | 3   | SKIN. |
| TLV       | GRC | 2,5   | 1   | 7,6   | 3   |       |
| GVI       | HRV | 2,5   | 1   | 7,6   | 3   | SKIN. |
| OEL       | IRL | 2,5   | 1   | 7,6   | 3   | SKIN. |
| TLV       | ITA | 2,5   | 1   | 7,6   | 3   | SKIN. |
| RD        | LTU | 8     | 3   | 15    | 6   | SKIN. |
| RV        | LVA | 0,5   | 0,2 | 7,6   | 3   | SKIN. |
| OEL       | NLD | 2,5   |     | 7,6   |     | SKIN. |
| TLV       | NOR | 2,5   | 1   |       |     | SKIN. |
| NDS       | POL | 2,5   |     | 7,5   |     |       |
| MV        | SVN | 2,5   | 1   |       |     | SKIN. |
| MAK       | SWE | 8     | 3   | 15    | 6   | SKIN. |
| OEL       | EU  | 2,5   | 1   | 7,6   | 3   | SKIN. |
| TLV-ACGIH |     | 7,5   | 3   | 15    | 6   |       |

Predicted no-effect concentration - PNEC.

|  |       |         |
|--|-------|---------|
| Normal value in fresh water                  | 0,085 | mg/l    |
| Normal value in marine water                 | 0,009 | mg/l    |
| Normal value for fresh water sediment        | 0,434 | mg/kg/d |
| Normal value for marine water sediment       | 0,043 | mg/kg/d |
| Normal value for water, intermittent release | 0,028 | mg/l    |
| Normal value of STP microorganisms           | 100   | mg/l    |
| Normal value for the terrestrial compartment | 0,037 | mg/kg/d |

### Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers.<br>Acute local | Acute systemic | Chronic local | Chronic systemic | Effects on workers<br>Acute local | Acute systemic | Chronic local | Chronic systemic |
|-------------------|--------------------------------------|----------------|---------------|------------------|-----------------------------------|----------------|---------------|------------------|
| Oral.             |                                      |                | VND           | 3,75 mg/kg bw/d  |                                   |                |               |                  |
| Inhalation.       |                                      |                | VND           | 2 mg/m3          |                                   |                | VND           | 3,3 mg/m3        |
| Skin.             | VND                                  | VND            | VND           | 0,24 mg/kg bw/d  | VND                               | VND            | VND           | 1 mg/kg bw/d     |

### POTASSIUM HYDROXIDE

#### Threshold Limit Value.

| Type | Country | TWA/8h<br>mg/m3 | ppm | STEL/15min<br>mg/m3 | ppm |        |
|------|---------|-----------------|-----|---------------------|-----|--------|
| MAK  | AUS     | 2               |     |                     |     | INHAL. |
| VLEP | BEL     |                 |     | 2                   |     |        |

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|           |     |     |       |
|-----------|-----|-----|-------|
| TLV       | BGR | 2   |       |
| TLV       | CZE | 1   | 2     |
| TLV       | DNK | 2   |       |
| VLA       | ESP |     | 2     |
| TLV       | EST | 2   |       |
| HTP       | FIN |     | 2 (C) |
| VLEP      | FRA |     | 2     |
| WEL       | GBR |     | 2     |
| TLV       | GRC | 2   | 2     |
| GVI       | HRV |     | 2     |
| AK        | HUN | 2   | 2     |
| OEL       | IRL |     | 2     |
| NDS       | POL | 0,5 | 1     |
| TLV-ACGIH |     |     | 2 (C) |

### Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers.<br>Acute local | Acute systemic | Chronic local | Chronic systemic<br>1 mg/m3 | Effects on workers<br>Acute local | Acute systemic | Chronic local | Chronic systemic<br>1 mg/m3 |
|-------------------|--------------------------------------|----------------|---------------|-----------------------------|-----------------------------------|----------------|---------------|-----------------------------|
| Inhalation.       |                                      |                | VND           |                             |                                   |                | VND           |                             |
| Skin.             |                                      |                |               |                             |                                   |                | VND           | VND                         |

### PHOSPHORIC ACID

#### Threshold Limit Value.

| Type | Country | TWA/8h<br>mg/m3 | ppm | STEL/15min<br>mg/m3 | ppm    |
|------|---------|-----------------|-----|---------------------|--------|
| MAK  | AUS     | 1               |     | 2                   |        |
| VLEP | BEL     | 1               |     | 2                   |        |
| TLV  | BGR     | 1               |     | 2                   |        |
| VEL  | CHE     | 1               |     | 2                   |        |
| MAK  | CHE     | 1               |     | 2                   |        |
| TLV  | CYP     | 1               |     | 2                   |        |
| TLV  | CZE     | 1               |     | 2                   |        |
| AGW  | DEU     | 2               |     | 4                   | INHAL. |
| MAK  | DEU     | 2               |     | 4                   | INHAL. |
| TLV  | DNK     | 1               |     |                     |        |
| VLA  | ESP     | 1               |     | 2                   |        |
| HTP  | FIN     | 1               |     | 2                   |        |
| VLEP | FRA     | 1               | 0,2 | 2                   | 0,5    |
| WEL  | GBR     | 1               |     | 2                   |        |
| TLV  | GRC     | 1               |     | 3                   |        |
| GVI  | HRV     | 1               |     | 2                   |        |
| AK   | HUN     | 1               |     | 2                   |        |
| OEL  | IRL     | 1               |     | 2                   |        |
| TLV  | ITA     | 1               |     | 2                   |        |
| RD   | LTU     | 1               |     | 2                   |        |
| RV   | LVA     | 1               |     | 2                   |        |
| OEL  | NLD     | 1               |     | 2                   |        |

|           |     |   |   |
|-----------|-----|---|---|
| TLV       | NOR | 1 |   |
| NDS       | POL | 1 | 2 |
| NPHV      | SVK | 1 | 2 |
| MAK       | SWE | 1 | 3 |
| ESD       | TUR | 1 | 2 |
| OEL       | EU  | 1 | 2 |
| TLV-ACGIH |     | 1 | 3 |

Predicted no-effect concentration - PNEC.

|  |     |
|--|-----|
| Normal value in fresh water                  | VND |
| Normal value in marine water                 | VND |
| Normal value for fresh water sediment        | NPI |
| Normal value for marine water sediment       | NPI |
| Normal value for water, intermittent release | VND |
| Normal value of STP microorganisms           | VND |
| Normal value for the terrestrial compartment | NPI |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers. |                |               |                  | Effects on workers |                |               |                  |
|-------------------|-----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
|                   | Acute local           | Acute systemic | Chronic local | Chronic systemic | Acute local        | Acute systemic | Chronic local | Chronic systemic |
| Inhalation.       |                       |                | VND           | 0.73 mg/m3       |                    |                | VND           | 2.92 mg/m3       |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.



If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SECTION 9. Physical and chemical properties.

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

|  |   |
|--|---|
| Appearance                             | liquid  |
| Colour                                 | various                                       |
| Odour                                  | mild  |
| Odour threshold.                       | Not available.                                |
| pH.                                    | 10  |
| Melting point / freezing point.        | < 0°C   |
| Initial boiling point.                 | 100 °C  |
| Boiling range.                         | Not available.                                |
| Flash point.                           | > 60 °C.                                      |
| Evaporation rate                       | Not available.                                |
| Flammability (solid, gas)              | not applicable                                |
| Lower inflammability limit.            | not applicable                                |
| Upper inflammability limit.            | not applicable                                |
| Lower explosive limit.                 | not applicable                                |
| Upper explosive limit.                 | not applicable                                |
| Vapour pressure.                       | 2,3 kPa (T = 20°C) (water)                    |
| Vapour density                         | 0,8 g/l (dry air 1,27 g/l) (water)            |
| Relative density.                      | 1,000 Kg/l                                    |
| Solubility                             | soluble in water                              |
| Partition coefficient: n-octanol/water | LogPow -2,3 (ETHANOLAMINE)                    |
| Auto-ignition temperature.             | not applicable                                |
| Decomposition temperature.             | not applicable                                |
| Viscosity                              | Not available.                                |
| Explosive properties                   | Product does not present an explosion hazard. |
| Oxidising properties                   | Not available.                                |

### 9.2. Other information.

|                              |                         |
|------------------------------|-------------------------|
| VOC (Directive 2010/75/EC) : | 1,90 % - 19,00 g/litre. |
| VOC (volatile carbon) :      | 0,75 % - 7,47 g/litre.  |

## SECTION 10. Stability and reactivity.

### 10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

PHOSPHORIC ACID: decomposes at temperatures over 200°C/392°F.

POTASSIUM HYDROXIDE: potential for exothermic hazard. May be corrosive to metals.

### 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

POTASSIUM HYDROXIDE: stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

PHOSPHORIC ACID: risk of explosion on contact with nitromethane. May react dangerously with alkalis and sodium borohydride.  
 POTASSIUM HYDROXIDE: gives off hydrogen by reaction with metals. Exothermic reaction with strong acids. Reacts violently with water.  
 ETHANOLAMINE: can react dangerously with: acrylonitrile, chloroepoxypropane, chlorosulphuric acid, hydrogen chloride, iron-sulphur compounds, acetic acid, acetic anhydride, mesityl oxide, nitric acid, sulphuric acid, strong mineral acids, vinyl acetate, cellulose nitrate.

### 10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

POTASSIUM HYDROXIDE: unstable on exposure to air. Freezing.  
 ETHANOLAMINE: avoid exposure to air and sources of heat.

### 10.5. Incompatible materials.

PHOSPHORIC ACID: Metals, strong alkalis, aldehydes, sulphides and peroxides.  
 POTASSIUM HYDROXIDE: keep away from: heat sources, oxidizing agents, acids, highly flammable materials, halogens, organic materials. Keep away from: lead, aluminium, copper, tin, zinc, bronze.  
 ETHANOLAMINE: iron, strong acids and strong oxidising agents.

### 10.6. Hazardous decomposition products.

PHOSPHORIC ACID: phosphorus oxide.  
 POTASSIUM HYDROXIDE: absorbs the atmospheric CO<sub>2</sub>. Hydrogen: reacts with (some) metals and their compounds; release of highly flammable gas.  
 ETHANOLAMINE: nitrogen oxides, carbon oxides.

## SECTION 11. Toxicological information.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

This product is corrosive and causes serious burns and vesicles on the skin, which can arise even after exposure. Burns are very stinging and painful. Upon contact with eyes, it may cause serious harm, such as cornea opacity, iris lesions, irreversible eye coloration. The vapors and/or powders are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours. Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness. If swallowed, it may cause mouth, throat and oesophagus burns, sickness, diarrhoea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastro-intestinal tract is also possible. This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

### 11.1. Information on toxicological effects.

Data refers to the mix:

ACUTE TOXICITY: No data available  
 SKIN CORROSION/IRRITATION: Causes severe skin burns and eye damage. (section 3.2 of the safety data sheet)  
 SERIOUS EYE DAMAGE/IRRITATION: Causes serious eye damage. (section 3.2 of the safety data sheet)  
 RESPIRATORY OR SKIN SENSITISATION: No data available  
 GERM CELL MUTAGENICITY: No data available

CARCINOGENICITY: No data available  
 REPRODUCTIVE TOXICITY: No data available  
 STOT-SINGLE EXPOSURE: No data available  
 STOT-REPEATED EXPOSURE: No data available  
 ASPIRATION HAZARD: No data available

**Data relating to substances hazardous mixture:**
**PHOSPHORIC ACID**

ACUTE TOXICITY:  
 LD50 (Oral).1530 mg/kg Rat  
 LD50 (Dermal).2740 mg/kg Rabbit  
 LC50 (Inhalation).> 0,85 mg/l/1h Rat

**POTASSIUM HYDROXIDE**

ACUTE TOXICITY:  
 LD50 (Oral).333 mg/kg Rat, equivalent or similar to (OECD Guideline 425)

**ETHANOLAMINE**

ACUTE TOXICITY:  
 LD50 (Oral).1515 mg/kg rat, equivalent or similar to (OECD Guideline 401)  
 LD50 (Dermal).2504 mg/kg rabbit, equivalent or similar to (OECD Guideline 402)  
 LC50 (Inhalation).> 0,136 mg/l/4h rat, equivalent or similar to (OECD Guideline 403)

**SECTION 12. Ecological information.**
**12.1. Toxicity.**
**ETHANOLAMINE**

LC50 - for Fish. 349 mg/l/96h Cyprinus carpio, according to (Directive 92/69/EEC, C.1)  
 EC50 - for Crustacea. 140 mg/l/48h Daphnia magna, according to (DIN 38412 Part 11)  
 EC50 - for Algae / Aquatic Plants. 2,1 mg/l/72h Pseudokirchnerella subcapitata, according to (OECD Guideline 201)

**12.2. Persistence and degradability.**
**PHOSPHORIC ACID**

Solubility in water. > 850000 mg/l

Biodegradability: Information not available.

**POTASSIUM HYDROXIDE**

Solubility in water. > 10000 mg/l

Biodegradability: Information not available.

**ETHANOLAMINE**

Solubility in water. mg/l 1000 - 10000

Rapidly biodegradable.

**12.3. Bioaccumulative potential.**

## ETHANOLAMINE

Partition coefficient: n-octanol/water. -2,3

**12.4. Mobility in soil.**

## ETHANOLAMINE

Partition coefficient: soil/water. -0,5646

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

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**12.6. Other adverse effects.**

Information not available.

**SECTION 13. Disposal considerations.****13.1. Waste treatment methods.**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information.****14.1. UN number.**

ADR / RID, IMDG, IATA: 3266

**14.2. UN proper shipping name.**

ADR / RID: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. MIXTURE

IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. MIXTURE

IATA: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. MIXTURE

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

ADR / RID: Class: 8 Label: 8



IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



#### 14.4. Packing group.

ADR / RID, IMDG, IATA: II

#### 14.5. Environmental hazards.

ADR / RID: NO

IMDG: NO

IATA: NO

#### 14.6. Special precautions for user.

ADR / RID: HIN - Kemler: 80 Limited Quantities: 1 L Tunnel restriction code: (E)

Special Provision: -

IMDG: EMS: F-A, S-B Limited Quantities: 1 L

IATA: Cargo: Maximum quantity: 30 L Packaging instructions: 855

Pass.: Maximum quantity: 1 L Packaging instructions: 851

Special Instructions: A3, A803

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

Information not relevant.

### SECTION 15. Regulatory information.

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

Seveso category. None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product.  
Point

3. Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:

(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;

(b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10;

(c) hazard class 4.1;

(d) hazard class 5.1.

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Product not intended for uses provided for by Dir. 2004/42/CE.

#### 15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

### SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

|                      |  |
|----------------------|--|
| <b>Met. Corr. 1</b>  | Substance or mixture corrosive to metals, category 1 |
| <b>Acute Tox. 4</b>  | Acute toxicity, category 4                           |
| <b>Skin Corr. 1A</b> | Skin corrosion, category 1A                          |
| <b>Skin Corr. 1B</b> | Skin corrosion, category 1B                          |
| <b>Eye Dam. 1</b>    | Serious eye damage, category 1                       |
| <b>H290</b>          | May be corrosive to metals.                          |
| <b>H302</b>          | Harmful if swallowed.                                |
| <b>H312</b>          | Harmful in contact with skin.                        |
| <b>H332</b>          | Harmful if inhaled.                                  |
| <b>H314</b>          | Causes severe skin burns and eye damage.             |
| <b>H318</b>          | Causes serious eye damage.                           |

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation

- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website

#### **Istituto Superiore di Sanità (ISS) – Archivio Preparati Pericolosi**

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#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### Training for workers:

Worker training should include content, updates and duration depending on the risk profiles assigned to the business sectors they belong.

#### **Classification according to Regulation (EC) Nr. 1272/2008**

Skin Corr. 1A, H314

#### **Classification procedure**

Calculation method