

# Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

### 1.1. Product identifier

Code: 411 00 14950-2802-5 L  
411 00 15580-3100-500 ml vapo  
411 00 18510-5070-1 L  
Product name RIM CLEANER

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

Intended use Alkaline cleaner for rims and engines

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

Name Meccanocar Italia S.r.l.  
Full address Via San Francesco, 22  
District and Country 56033 Capannoli (PI)  
Italy

Tel. +39 0587 609433

Fax +39 0587 607145

e-mail address of the competent person  
responsible for the Safety Data Sheet

moreno.meini@meccanocar.it

### 1.4. Emergency telephone number

For urgent inquiries refer to

National Poisons Information Service: +44 121 507 4123

## 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 (EU) Regulation 2015/830. 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:

|  |      |  |
|--|------|--|
| Substance or mixture corrosive to metals, category 1 | H290 | May be corrosive to metals.              |
| 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:

## RIM CLEANER



Signal words: Danger

## Hazard statements:

**H290** May be corrosive to metals.  
**H314** Causes severe skin burns and eye damage.

## Precautionary statements:

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
**P280** Wear protective gloves/ protective clothing / eye protection / face protection.  
**P310** Immediately call a POISON CENTER / doctor.  
**P260** Do not breathe dust / fume / gas / mist / vapours / spray.  
**P301+P330+P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**Contains:** SODIUM HYDROXIDE  
 ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM  
 ALCOHOLS, C12-13- BRANCHED AND LINEAR, ETHOXYLATED

## 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

### 3.2. Mixtures

## Contains:

| Identification   | x = Conc. % | Classification 1272/2008 (CLP)  |
|--|-------------|---|
| <b>SODIUM HYDROXIDE</b>                                |             |   |
| CAS 1310-73-2  | 4 ≤ x < 4,5 | Skin Corr. 1A H314, Eye Dam. 1 H318                                   |
| EC 215-185-5   |             |   |
| INDEX 011-002-00-6                                     |             |   |
| Reg. no. 01-2119457892-27-XXXX                         |             |   |
| <b>ETHYLENDIAMMINOTETRAACETA<br/>TE OF TETRASODIUM</b> |             |   |
| CAS 64-02-8  | 4 ≤ x < 4,5 | Acute Tox. 4 H302, Acute Tox. 4 H332, STOT RE 2 H373, Eye Dam. 1 H318 |
| EC 200-573-9   |             |   |
| INDEX 607-428-00-2                                     |             |   |
| Reg. no. 01-2119486762-27-XXXX                         |             |   |

## RIM CLEANER

**ALCOHOLS, C12-13- BRANCHED  
AND LINEAR, ETHOXYLATED**

CAS 160901-19-9

4 ≤ x &lt; 4,5

Acute Tox. 4 H302, Eye Dam. 1 H318, Aquatic Chronic 3 H412

EC 931-954-4

INDEX -

Reg. no. 01-2119486762-27-XXXX

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.

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

Specific information on symptoms and effects caused by the product are unknown.

**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. 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)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory References:

|     |                |   |
|-----|----------------|---|
| ESP | España         | LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)  |
| FRA | France         | Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS  |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Third edition, published 2018)   |
| NOR | Norge          | Fastsatt av Arbeids- og sosialdepartementet 21. august 2018 med hjemmel i lov 17. juni 2005 nr. 62 om arbeidsmiljø, arbeidstid, stillingsvern mv. (arbeidsmiljøloven) § 1-3, § 1-4 og § 4-5 |
|     | TLV-ACGIH      | ACGIH 2019  |

### ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

#### Threshold Limit Value

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

## RIM CLEANER

|  | mg/m3 | ppm | mg/m3 | ppm |       |
|--|-------|-----|-------|-----|-------|
| TLV-ACGIH                                    | 3     |     |       |     | RESP  |
| TLV-ACGIH                                    | 2     |     |       |     |       |
| TLV-ACGIH                                    | 10    |     |       |     | INHAL |
| Predicted no-effect concentration - PNEC     |       |     |       |     |       |
| Normal value in fresh water                  |       |     | 2,2   |     | mg/l  |
| Normal value in marine water                 |       |     | 0,22  |     | mg/l  |
| Normal value for water, intermittent release |       |     | 1,2   |     | mg/l  |
| Normal value of STP microorganisms           |       |     | 43    |     | mg/l  |
| Normal value for the terrestrial compartment |       |     | 0,72  |     | mg/kg |

**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 |
| Oral              |                      |                |               | 25 mg/kg bw/d    |                    |                |               |                  |
| Inhalation        |                      | 1,2 mg/m3      |               | 0,6 mg/m3        |                    | 3 mg/m3        |               | 1,5 mg/m3        |

**SODIUM HYDROXIDE****Threshold Limit Value**

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| VLA       | ESP     |        |     | 2          |     |                        |
| VLEP      | FRA     | 2      |     |            |     |                        |
| WEL       | GBR     |        |     | 2          |     |                        |
| TLV       | NOR     | 2      |     |            |     |                        |
| TLV-ACGIH |         |        |     | 2 (C)      |     |                        |

**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        |                      |                |               | 1 mg/m3          |                    |                |               | 1 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.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

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**

**RIM CLEANER**

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 Regulation 2016/425 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.

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Suitable materials also with prolonged direct contact (Recommended: protection index 6, corresponding to > 480 minutes of breakthrough time according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm).

**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                                |                |
|--------------------------------|----------------|
| Appearance                     | liquid         |
| Colour                         | dark red       |
| Odour                          | characteristic |
| Odour threshold                | Not available  |
| pH                             | 13,5           |
| Melting point / freezing point | Not available  |
| Initial boiling point          | Not available  |
| Boiling range                  | Not available  |
| Flash point                    | > 60 °C        |
| Evaporation rate               | Not available  |
| Flammability (solid, gas)      | Not available  |
| Lower inflammability limit     | Not available  |
| Upper inflammability limit     | Not available  |
| Lower explosive limit          | Not available  |
| Upper explosive limit          | Not available  |
| Vapour pressure                | Not available  |

## RIM CLEANER

|  |                  |
|--|------------------|
| Vapour density                         | Not available    |
| Relative density                       | 1,065            |
| Solubility                             | soluble in water |
| Partition coefficient: n-octanol/water | Not available    |
| Auto-ignition temperature              | Not available    |
| Decomposition temperature              | Not available    |
| Viscosity                              | Not available    |
| Explosive properties                   | Not available    |
| Oxidising properties                   | Not available    |

**9.2. Other information**

Information not available

**SECTION 10. Stability and reactivity****10.1. Reactivity**

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

**10.2. Chemical stability**

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

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Decomposition temperature > 150 ° C

SODIUM HYDROXIDE

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

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

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

It can corrode metals in the presence of water or moisture

SODIUM HYDROXIDE

- Emits hydrogen by reaction with metals.
- Exothermic reaction with strong acids.
- Risk of violent reaction.
- Risk of explosion.
- Reacts violently with water.

**10.4. Conditions to avoid**

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

**SODIUM HYDROXIDE**

Avoid exposure to: air,moisture,sources of heat.

- Far from direct sunlight.
- To avoid thermal decomposition, do not overheat.
- Exposure to humidity.
- Freezing

**10.5. Incompatible materials****ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Oxidizing agents, amphoteric metals and light metals

**SODIUM HYDROXIDE**

Incompatible with: strong acids,ammonia,zinc,lead,aluminium,water,flammable liquids.

Metals, oxidizing agents, water, acids, aluminum, other light metals and their alloys.

**10.6. Hazardous decomposition products**

Information not available

**SECTION 11. Toxicological information****11.1. Information on toxicological effects**Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available



**RIM CLEANER**ACUTE TOXICITY

LC50 (Inhalation) of the mixture:  
> 5 mg/l  
LD50 (Oral) of the mixture:  
>2000 mg/kg  
LD50 (Dermal) of the mixture:  
Not classified (no significant component)

## SODIUM HYDROXIDE

LD50 (Oral) 1350 mg/kg Rat

LD50 (Dermal) 1350 mg/kg Rat

## ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

LD50 (Oral) 1780 mg/kg Ratto (equivalente o similare a OECD 401)

## ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Method: equivalent or similar to OECD 401  
Reliability: 2  
Species: Rat (Wistar; male / female)  
Route of exposure: oral  
Results: LD50 = 1780 mg / kg  
Method: OECD 412  
Reliability: 1  
Species: Rat (wistar; male)  
Route of exposure: inhalation (aerosol)  
Results: harmful by inhalation

SKIN CORROSION / IRRITATION

Corrosive for the skin

## ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Method: OECD 404  
Reliability: 1  
Species: Rabbit (Vienna White)  
Route of exposure: cutaneous  
Results: not irritating

## SODIUM HYDROXIDE

Method: Not indicated  
Reliability: 1  
Human species  
Route of exposure: Dermal  
Results: Irritating  
Bibliographic reference: York M, Griffiths E, Whittle E and Basketter DA, Evaluation of a human patch test for the identification and classification of skin irritation potential (1996)

**RIM CLEANER**SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

## ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Method: equivalent or similar to OECD 405

Reliability: 2

Species: Rabbit (Vienna White)

Route of exposure: ocular

Results: causes serious eye damage (Harmonized classification, Annex VI, CLP Reg.)

## SODIUM HYDROXIDE

Method: OECD 405

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Ocular

Results: Irritating

Bibliographic reference: Jacobs GA, OECD Eye Irritation Tests on Sodium Hydroxide (1992)

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

## ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Method: OECD 406 - Read across

Reliability: 1

Species: guinea pig (Hartley; female)

Route of exposure: cutaneous

Results: non sensitizing

## SODIUM HYDROXIDE

Method: According to the OECD SIDS document for sodium hydroxide

Reliability: 2

Species: Human (male)

Route of exposure: Dermal

Results: Not sensitizing

Bibliographic reference: Park et al., Journal of Dermatological Science, 10, 159-165 (1995).

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

## ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Method: equivalent or similar to 471 - In vitro test

Reliability: 2

Species: S. typhimurium, E.Coli

Results: negative with and without metabolic activation

Method: OECD 474 - in vivo test

Reliability: 1

Species: Mouse (NMRI; male)

Route of exposure: oral

Results: negative.

CARCINOGENICITY

**RIM CLEANER**

Does not meet the classification criteria for this hazard class

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Method: study report (1977)

Reliability: 2

Species: Mouse (B6C3F1; male / female)

Route of exposure: oral

Results: negative. NOAEL (carcinogenicity) = 938 mg / kg bw / day

**REPRODUCTIVE TOXICITY**

Does not meet the classification criteria for this hazard class

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Method: Not indicated

Reliability: 2

Species: Rat (Wistar; male / female)

Route of exposure: oral

Results: negative. NOAEL (reproduction) > = 250 mg / kg body weight / day

Bibliographic reference: Oser, B.L. et al., Toxicology and applied pharmacology (1963)

Method: not indicated

Reliability: 2

Species: Rat (Albino)

Route of exposure: oral

Results: negative. NOAEL (development, fetus) > = 1 374 mg / kg body weight / day

Bibliographic reference: Schardein, J.L. et al., Toxicology and Applied Pharmacology (1981)

**STOT - SINGLE EXPOSURE**

Does not meet the classification criteria for this hazard class

**ALCOHOLS, C12-13- BRANCHED AND LINEAR, ETHOXYLATED**

Based on available data and through expert judgment the substance is not classified in the target organ toxicity class for single exposure.

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

**SODIUM HYDROXIDE**

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

**STOT - REPEATED EXPOSURE**

Does not meet the classification criteria for this hazard class

**ALCOHOLS, C12-13- BRANCHED AND LINEAR, ETHOXYLATED**

Based on available data and through expert judgment the substance is not classified in the target organ toxicity class for prolonged or repeated exposure.

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Method: Not indicated-Read across

## RIM CLEANER

Reliability: 2

Species: Rat (Holtzman; male)

Route of exposure: Oral

Results: Negative, NOAEL > = 500 mg / kg bw / day

Bibliographical reference: The Toxicity and Pharmacodynamics of EGTA: Oral Administration to Rats and Comparisons with EDTA, Wynn, J.E. et al (1970)

Method: OECD 413

Reliability: 1

Species: Rat (Wistar; male / female)

Route of exposure: Inhalation (dust)

Results: Negative, NOAEC = 3 mg / m3 air

#### SODIUM HYDROXIDE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for prolonged or repeated exposure.

Target organ

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Respiratory tract

Route of exposure

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Inhalation

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## SECTION 12. Ecological information

### 12.1. Toxicity

Information not available

### 12.2. Persistence and degradability

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Not rapidly degradable, 0-10% in 28 days (OECD 302 B)

SODIUM HYDROXIDE

Solubility in water

> 10000 mg/l

Degradability: information not available

### 12.3. Bioaccumulative potential

Information not available

### 12.4. Mobility in soil

Information not available

## RIM CLEANER

**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.

**SODIUM HYDROXIDE**

- Dilute with plenty of water.
- Solutions with a high pH value must be neutralized before discharging.
- Neutralize with acid.
- In accordance with local and national regulations.

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

ADR / RID, IMDG, 1824  
IATA:

**14.2. UN proper shipping name**

ADR / RID: SODIUM HYDROXIDE SOLUTION  
IMDG: SODIUM HYDROXIDE SOLUTION  
IATA: SODIUM HYDROXIDE SOLUTION

**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**

## RIM CLEANER

ADR / RID, IMDG, II  
IATA:

**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) |
| IMDG:      | Special Provision: -<br>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 Marpol 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 - Directive 2012/18/EC: None

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

Product Point 3

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

None

**RIM CLEANER**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.

**15.2. Chemical safety assessment**

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

**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>STOT RE 2</b>         | Specific target organ toxicity - repeated exposure, category 2     |
| <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>Aquatic Chronic 3</b> | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| <b>H290</b>              | May be corrosive to metals.  |
| <b>H302</b>              | Harmful if swallowed.  |
| <b>H332</b>              | Harmful if inhaled.  |
| <b>H373</b>              | May cause damage to organs through prolonged or repeated exposure. |
| <b>H314</b>              | Causes severe skin burns and eye damage.                           |
| <b>H318</b>              | Causes serious eye damage.   |
| <b>H412</b>              | Harmful to aquatic life with long lasting effects.                 |

**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%

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- 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**

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- The Merck Index. - 10th Edition
  - Handling Chemical Safety
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  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**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.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

**Changes to previous review:**

The following sections were modified:

02 / 03 / 08 / 09 / 10 / 11 / 12 / 13 / 15 / 16.