

# Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

### 1.1. Product identifier

Code: **411 00 21320-6440**  
Product name: **FOAMING PRE-WASH DETERGENT**

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

Intended use: **Alkaline detergent in foaming form for car washing**

### 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**  
Supplier:

### 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 2020/878. 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 1A    | 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:

## FOAMING PRE-WASH DETERGENT



Signal words: Danger

## Hazard statements:

**H314** Causes severe skin burns and eye damage.  
**H290** May be corrosive to metals.  
**EUH071** Corrosive to the respiratory tract.

## Precautionary statements:

**P260** Do not breathe mist.  
**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.  
**P301+P330+P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**Contains:** SODIUM HYDROXIDE  
 ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM  
 SULPHONIC ACIDS, C14-16 (EVEN NUMBER) -ALKANO HYDROXY AND C14-16 (EVEN NUMBER) -ALCENE,  
 SODIUM SALTS

## 2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

### 3.2. Mixtures

## Contains:

| Identification  | x = Conc. %    | Classification (EC) 1272/2008 (CLP)                                   |
|---|----------------|---|
| <b>ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM</b>   |                |   |
| CAS 64-02-8   | $8 \leq x < 9$ | Acute Tox. 4 H302, Acute Tox. 4 H332, STOT RE 2 H373, Eye Dam. 1 H318 |
| EC 200-573-9  |                | LD50 Oral: 1780 mg/kg, STA Inhalation mists/powders: 1,5 mg/l         |
| INDEX 607-428-00-2  |                |   |
| REACH Reg. 01-2119486762-27-XXXX  |                |   |
| <b>SULPHONIC ACIDS, C14-16 (EVEN NUMBER) -ALKANO HYDROXY AND C14-16 (EVEN NUMBER) -ALCENE, SODIUM SALTS</b> |                |   |

## FOAMING PRE-WASH DETERGENT

|                                  |                  |   |
|----------------------------------|------------------|---|
| CAS 68439-57-6                   | $6 \leq x < 7$   | Eye Dam. 1 H318, Skin Irrit. 2 H315   |
| EC 931-534-0                     |                  |   |
| INDEX -                          |                  |   |
| REACH Reg. 01-2119513401-57-XXXX |                  |   |
| <b>SODIUM HYDROXIDE</b>          |                  |   |
| CAS 1310-73-2                    | $4,5 \leq x < 5$ | Skin Corr. 1A H314, Eye Dam. 1 H318   |
| EC 215-185-5                     |                  | Skin Corr. 1B H314: $\geq 2\%$ , Skin Irrit. 2 H315: $\geq 0,5\%$ , Eye Dam. 1 H318: $\geq 2\%$ , Eye Irrit. 2 H319: $\geq 0,5\%$ |
| INDEX 011-002-00-6               |                  |   |
| REACH Reg. 01-2119457892-27-XXXX |                  |   |
| <b>ISOBUTYL ALCOHOL</b>          |                  |   |
| CAS 78-83-1                      | $2,5 \leq x < 3$ | Flam. Liq. 3 H226, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336  |
| EC 201-148-0                     |                  |   |
| INDEX 603-108-00-1               |                  |   |
| REACH Reg. 01-2119484609-23-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

**FOAMING PRE-WASH DETERGENT**

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**

**FOAMING PRE-WASH DETERGENT**

## Regulatory References:

|     |                |   |
|-----|----------------|---|
| ESP | España         | Límites de exposición profesional para agentes químicos en España 2021  |
| FRA | France         | Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS  |
| NOR | Norge          | Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255 |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020)   |
|     | TLV-ACGIH      | ACGIH 2020  |

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM****Threshold Limit Value**

| Type   | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|--|---------|--------|-----|------------|-----|------------------------|
|  |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| TLV-ACGIH                                    |         | 2      |     |            |     |                        |
| TLV-ACGIH                                    |         | 10     |     |            |     | INHAL                  |
| TLV-ACGIH                                    |         | 3      |     |            |     | RESP                   |
| 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        |

**SULPHONIC ACIDS, C14-16 (EVEN NUMBER) -ALKANO HYDROXY AND C14-16 (EVEN NUMBER) -ALCENE, SODIUM SALTS**

## Predicted no-effect concentration - PNEC

|  |  |  |  |       |  |       |
|--|--|--|--|-------|--|-------|
| Normal value in fresh water                  |  |  |  | 0,024 |  | mg/l  |
| Normal value in marine water                 |  |  |  | 0,002 |  | mg/l  |
| Normal value for fresh water sediment        |  |  |  | 0,767 |  | mg/kg |
| Normal value for marine water sediment       |  |  |  | 0,077 |  | mg/kg |
| Normal value of STP microorganisms           |  |  |  | 4     |  | mg/l  |
| Normal value for the terrestrial compartment |  |  |  | 1,21  |  | 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              |                      |                |               | 12,95 mg/kg bw/d   |             |                |               |                    |
| Inhalation        |                      |                |               | 45,04 mg/m3        |             |                |               | 152,22 mg/m3       |
| Skin              |                      |                |               | 1295 mg/kg bw/d    |             |                |               | 2158,33 mg/kg bw/d |

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

**FOAMING PRE-WASH DETERGENT**

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

**ISOBUTYL ALCOHOL  
Threshold Limit Value**

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| VLA       | ESP     | 154    | 50  |            |     |                        |
| VLEP      | FRA     | 150    | 50  |            |     |                        |
| TLV       | NOR     | 75     | 25  |            |     | SKIN                   |
| WEL       | GBR     | 154    | 50  | 231        | 75  |                        |
| TLV-ACGIH |         | 152    | 50  |            |     |                        |

**Predicted no-effect concentration - PNEC**

|  |       |       |
|--|-------|-------|
| Normal value in fresh water                  | 0,4   | mg/l  |
| Normal value in marine water                 | 0,04  | mg/l  |
| Normal value for fresh water sediment        | 1,56  | mg/kg |
| Normal value for marine water sediment       | 0,156 | mg/kg |
| Normal value of STP microorganisms           | 10    | mg/l  |
| Normal value for the terrestrial compartment | 0,076 | 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 |
| Inhalation        |                      |                | 55 mg/m3      |                    |             |                | 310 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.

**FOAMING PRE-WASH DETERGENT**

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 III 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 a hood visor or protective visor combined with airtight 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).

**ISOBUTYL ALCOHOL**

Suitable safety gloves resistant to chemicals (EN 374) also with prolonged direct contact (Recommended: protection index 6, corresponding to > 480 minutes of breakthrough time according to EN 374): Eg nitrile rubber (0.4 mm), chloroprene rubber (0.5mm), butyl rubber (0.7mm) etc.

The manufacturer's instructions for use must be observed due to the wide variety of types.

Additional note: specifications are based on tests, literature data and information from glove manufacturers or derive from similar substances by analogy. Due to many conditions (eg temperature), it should be considered that the practical use of a chemical protective glove in practice can be much shorter than the breakthrough time determined through testing.

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

| Properties                     | Value         | Information |
|--------------------------------|---------------|-------------|
| Appearance                     | liquid        |             |
| Colour                         | pink          |             |
| Odour                          | pungent       |             |
| Melting point / freezing point | Not available |             |

**FOAMING PRE-WASH DETERGENT**

|  |                  |                         |
|--|------------------|-------------------------|
| Initial boiling point                  | Not available    |                         |
| Flammability                           | Not available    |                         |
| Lower explosive limit                  | Not available    |                         |
| Upper explosive limit                  | Not available    |                         |
| Flash point                            | > 60 °C          |                         |
| Auto-ignition temperature              | Not available    | Remark:Non infiammabile |
| pH                                     | 13,5             |                         |
| Kinematic viscosity                    | Not available    |                         |
| Solubility                             | soluble in water |                         |
| Partition coefficient: n-octanol/water | Not available    |                         |
| Vapour pressure                        | Not available    |                         |
| Density and/or relative density        | 1,11             |                         |
| Relative vapour density                | Not available    |                         |
| Particle characteristics               | Not applicable   |                         |

**9.2. Other information**

## 9.2.1. Information with regard to physical hazard classes

Information not available

## 9.2.2. Other safety characteristics

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**

The vapours may also form explosive mixtures with the air.

**FOAMING PRE-WASH DETERGENT**

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.

ISOBUTYL ALCOHOL

Reacts with strong oxidizing agents

**10.4. Conditions to avoid**

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

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.

ISOBUTYL ALCOHOL

Strong oxidizing agents

**10.6. Hazardous decomposition products**

## FOAMING PRE-WASH DETERGENT

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

## SECTION 11. Toxicological information

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

#### 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

#### ACUTE TOXICITY

|  |   |
|--|---|
| ATE (Inhalation - mists / powders) of the mixture: | > 5 mg/l                                  |
| ATE (Oral) of the mixture:                         | >2000 mg/kg                               |
| ATE (Dermal) of the mixture:                       | Not classified (no significant component) |

#### ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

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

#### SODIUM HYDROXIDE

|                |                |
|----------------|----------------|
| LD50 (Oral):   | 1350 mg/kg Rat |
| LD50 (Dermal): | 1350 mg/kg Rat |

#### 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

**FOAMING PRE-WASH DETERGENT**

Method: OECD 412  
Reliability: 1  
Species: Rat (wistar; male)  
Route of exposure: inhalation (aerosol)  
Results: harmful by inhalation

**SULPHONIC ACIDS, C14-16 (EVEN NUMBER) -ALKANO HYDROXY AND C14-16 (EVEN NUMBER) -ALCENE, SODIUM SALTS**

Metodo: OECD Guideline 401

Affidabilità: 1

Specie: Ratto (Wistar; maschio/femmina)

Via d'esposizione: Orale

Risultati: LD50 2 310 mg/kg bw

Metodo: Equivalente o similare a OECD Guideline 403

Affidabilità: 2

Specie: Ratto

Via d'esposizione: Inalazione (aerosol)

Risultati: LC50 > 52 mg/L air

Metodo: Equivalente o similare a OECD Guideline 402

Affidabilità: 2

Specie: Coniglio

Via d'esposizione: Cutanea

Risultati: LD50 6 300 mg/kg bw

**ISOBUTYL ALCOHOL**

Method: OECD 401

Reliability: 1

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Oral

Results: LD50> 2830 mg / kg bw

Method: OECD 402

Reliability: 1

Species: Rabbit (New Zealand White; male / female)

Route of exposure: Inhalation

Results: LD50> 2000 mg / kg bw

Method: OECD 402

Reliability: 1

Species: Rabbit (New Zealand White; male / female)

Route of exposure: Dermal

Results: LD50> 2000 mg / kg bw

**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

**SULPHONIC ACIDS, C14-16 (EVEN NUMBER) -ALKANO HYDROXY AND C14-16 (EVEN NUMBER) -ALCENE, SODIUM SALTS**

Metodo: OECD Guideline 404

Affidabilità: 2

Specie: Coniglio (New Zealand White)

**FOAMING PRE-WASH DETERGENT**

Via d'esposizione: Cutanea  
Risultati: Irritante

**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)

**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.)

**SULPHONIC ACIDS, C14-16 (EVEN NUMBER) -ALKANO HYDROXY AND C14-16 (EVEN NUMBER) -ALCENE, SODIUM SALTS**

Metodo: OECD Guideline 405

Affidabilità: 1

Specie: Coniglio (New Zealand White)

Via d'esposizione: Oculare

Risultati: Corrosivo

**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)

**ISOBUTYL ALCOHOL**

Method: OECD 405

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Ocular

Results: Corrosive

**RESPIRATORY OR SKIN SENSITISATION**

Does not meet the classification criteria for this hazard class

**FOAMING PRE-WASH DETERGENT****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).

**ISOBUTYL ALCOHOL**

Method: QSAR

Reliability: 1

Species: Not indicated

Route of exposure: Dermal

Results: Not classified

Respiratory sensitization

Information not available

Skin sensitization**SULPHONIC ACIDS, C14-16 (EVEN NUMBER) -ALKANO HYDROXY AND C14-16 (EVEN NUMBER) -ALCENE, SODIUM SALTS**

Metodo: Equivalente o similare a OECD Guideline 406

Affidabilità: 1

Specie: Porcellini d'india (Dunkin-Hartley; femmina)

Via d'esposizione: Cutanea

Risultati: Non sensibilizzante

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

**FOAMING PRE-WASH DETERGENT**

Results: negative.

**SULPHONIC ACIDS, C14-16 (EVEN NUMBER) -ALKANO HYDROXY AND C14-16 (EVEN NUMBER) -ALCENE, SODIUM SALTS**

Metodo: OECD Guideline 471-test in vitro

Affidabilità: 1

Specie: *S. typhimurium*

Risultati: Negativa con o senza attivazione metabolica

**ISOBUTYL ALCOHOL**

Method: Not indicated - in vitro test

Reliability: 2

Species: Chinese hamster

Results: Negative with and without metabolic activation

Bibliographic reference: Evaluation of the genotoxic potential of some microbial volatile organic compounds (MVOC) with the comet assay, the micronucleus assay and the HPRT gene mutation assay, Kreja L, Seidel H-J (2002)

Method: OECD 474-test in vivo

Reliability: 1

Species: Mouse (NMR1; male / female)

Route of exposure: Oral

Results: Negative

**CARCINOGENICITY**

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

**SULPHONIC ACIDS, C14-16 (EVEN NUMBER) -ALKANO HYDROXY AND C14-16 (EVEN NUMBER) -ALCENE, SODIUM SALTS**

Metodo: Non indicato

Affidabilità: 2

Specie: Ratto (CFY; maschio)

Via d'esposizione: Orale

Risultati: NOAEL  $\geq$  195 mg/kg bw/day

Riferimento bibliografico: Hunter, B. and Benson, H.G., Long-term toxicity of the surfactant alpha-olefin sulphonate (AOS) in the rat. (1976)

**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

**FOAMING PRE-WASH DETERGENT**

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)

Adverse effects on sexual function and fertility**ISOBUTYL ALCOHOL**

Method: EPA OPPTS 870.3800

Reliability: 1

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Inhalation (vapors)

Results: Negative, NOAEL (fertility) > = 7.5 mg / L air

Adverse effects on development of the offspring**SULPHONIC ACIDS, C14-16 (EVEN NUMBER) -ALKANO HYDROXY AND C14-16 (EVEN NUMBER) -ALCENE, SODIUM SALTS**

Metodo: Equivalente o similare a OECD Guideline 414

Affidabilità: 2

Specie: Topo (CD-1)

Via d'esposizione: Orale

Risultati: NOAEL 2 mg/kg bw/day

**ISOBUTYL ALCOHOL**

Method: OECD 414

Reliability: 1

Species: Rat (Wistar)

Route of exposure: Inhalation (vapors)

Results: Negative, NOAEL (development) = 10 mg / L air

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

**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.

**FOAMING PRE-WASH DETERGENT**

SULPHONIC ACIDS, C14-16 (EVEN NUMBER) -ALKANO HYDROXY AND C14-16 (EVEN NUMBER) -ALCENE, SODIUM SALTS  
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.

**ISOBUTYL ALCOHOL**

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

Target organ**ISOBUTYL ALCOHOL**

Respiratory tract

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

**ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM**

Method: Not indicated-Read across

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

**SULPHONIC ACIDS, C14-16 (EVEN NUMBER) -ALKANO HYDROXY AND C14-16 (EVEN NUMBER) -ALCENE, SODIUM SALTS**

Metodo: Non indicato

Affidabilità: 2

Specie: Ratto (CFY; maschio)

Via d'esposizione: Orale

Risultati: NOAEL 96 mg/kg bw/day

Riferimento bibliografico: Hunter, B. and Benson, H.G., Long-term toxicity of the surfactant alpha-olefin sulphonate (AOS) in the rat. (1976)

**SODIUM HYDROXIDE**

## FOAMING PRE-WASH DETERGENT

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

## ISOBUTYL ALCOHOL

Method: OECD 408

Reliability: 1

Species: Rat (Wistar; male / female)

Route of exposure: Oral

Results: Negative, NOAEL > 1450 mg / kg bw / day

Method: EPA OPPTS 870.3800

Reliability: 1

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Inhalation (vapors)

Results: Negative, NOAEL = 7.5 mg / L air

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

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

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

SULPHONIC ACIDS, C14-16 (EVEN NUMBER) -ALKANO HYDROXY AND C14-16 (EVEN NUMBER) -ALCENE, SODIUM SALTS

|                                   |               |
|-----------------------------------|---------------|
| LC50 - for Fish                   | 4,2 mg/l/96h  |
| EC50 - for Algae / Aquatic Plants | 1,97 mg/l/72h |
| EC10 for Algae / Aquatic Plants   | 1,2 mg/l/72h  |

**FOAMING PRE-WASH DETERGENT**

Chronic NOEC for Algae / Aquatic Plants 1,2 mg/l

**12.2. Persistence and degradability**

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

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

SULPHONIC ACIDS, C14-16 (EVEN NUMBER) -ALKANO HYDROXY AND C14-16 (EVEN NUMBER) -ALCENE, SODIUM SALTS

Rapidamente biodegradabile, 80% in 28 giorni.

ISOBUTYL ALCOHOL

Easily degradable in water, 70-80% in 28 days.

SODIUM HYDROXIDE

Solubility in water > 10000 mg/l

Degradability: information not available

ISOBUTYL ALCOHOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

**12.3. Bioaccumulative potential**

ISOBUTYL ALCOHOL

Partition coefficient: n-octanol/water 1

**12.4. Mobility in soil**

ISOBUTYL ALCOHOL

Partition coefficient: soil/water 0,31

**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  $\geq$  than 0,1%.

**12.6. Endocrine disrupting properties**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

**12.7. 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

**FOAMING PRE-WASH DETERGENT**

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

SULPHONIC ACIDS, C14-16 (EVEN NUMBER) -ALKANO HYDROXY AND C14-16 (EVEN NUMBER) -ALCENE, SODIUM SALTS

Metodi di smaltimento:

La generazione di rifiuti dovrebbe essere evitata o minimizzata ove possibile. Vuoto i contenitori o le fodere possono trattenere alcuni residui di prodotto. Questo materiale e i suoi i contenitore deve essere smaltito in modo sicuro. Quantità significative di prodotto di scarto i residui non devono essere smaltiti attraverso le fognature ma trattati in modo adeguato impianto di trattamento degli effluenti. Smaltire i prodotti in eccesso e non riciclabili tramite a appaltatore autorizzato allo smaltimento dei rifiuti. Smaltimento di questo prodotto, soluzioni ed eventuali sottoprodotti dovrebbe sempre rispettare i requisiti ambientali legislazione sulla protezione e sullo smaltimento dei rifiuti e qualsiasi autorità locale regionale requisiti. Evitare la dispersione del materiale versato e il deflusso e il contatto con il suolo, corsi d'acqua, scarichi e fognature.

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.

ISOBUTYL ALCOHOL

They must be disposed of or incinerated in accordance with local regulations.

## SECTION 14. Transport information

### 14.1. UN number or ID 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

ADR / RID, IMDG, II  
IATA:

### 14.5. Environmental hazards

## FOAMING PRE-WASH DETERGENT

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 provision:   | A3, A803                |                              |

**14.7. Maritime transport in bulk according to IMO instruments**

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/EU: None

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

Product Point  
 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

**FOAMING PRE-WASH DETERGENT**

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.

### 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>Flam. Liq. 3</b>  | Flammable liquid, category 3                                       |
| <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>Eye Dam. 1</b>    | Serious eye damage, category 1                                     |
| <b>STOT SE 3</b>     | Specific target organ toxicity - single exposure, category 3       |
| <b>H226</b>          | Flammable liquid and vapour.                                       |
| <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>H335</b>          | May cause respiratory irritation.                                  |
| <b>H336</b>          | May cause drowsiness or dizziness.                                 |

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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

**FOAMING PRE-WASH DETERGENT**

- IMO: International Maritime Organization
- INDEX: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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 (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) 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
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
  15. Regulation (EU) 2019/521 (XII Atp. CLP)
  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
  17. Regulation (EU) 2019/1148
  18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
  19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
  20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
  21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 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
  - 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.

**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.