



SERVICES

# SAFETY DATA SHEET

In compliance with EC Regulations No.: 1907/2006, 830/2015 and 1272/2008 (CLP).

Date last modified: 21 October 2019 - version 6.0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

## **1.1 Product Identifier**

## Product Name: HAND CLEANER Product Code #: 830501 (5 lt)

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

## Intended Use: Industrial applications; Cleaning agent for the hands.

Uses advised against: This product is not recommended for any industrial, professional or consumer use other than the Intended Uses above and the instructions written in this Safety Data Sheet.

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

## **Company/undertaking identification**

## **Supplier/Manufacturer:**

Marichem Marigases Hellas SA Sfaktirias 64, 185 45 Piraeus. Greece Tel. No.: ++30 210 4148800 Fax No.: ++30 210 4133985 http://www.marichem-marigases.com

## e-mail: mail@marichem-marigases.com

## **<u>1.4 Emergency telephone number</u>**

Tel. No.: ++30 210 4148800 (including working hours)

**Emergency Information:** Inside U.S. and Canada: (800)-424-9300 (CHEMTREC) Outside U.S. and Canada: 1-703-527-3887 (CHEMTREC) National Emergency Centre (Greece): ++30 210 7793777

# 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the mixture

Classification under EC 1272/2008 regulation - GHS classification.

Acute Toxicity - Oral: Acute Tox. 5 Serious Eye Damage/Eye Irritation: 2

## SIGNAL WORD: WARNING



## Hazard Statement(s):

H303 May be harmful if swallowed. H320 Causes eye irritation.

## **2.2 Label Elements**

Labelling according to Regulation (EC) No. 1272/2008. The substance is classified and labelled according to the CLP Regulation.

## **Hazard Pictograms**



Signal Word: WARNING

#### **Hazard Statements**

H303 May be harmful if swallowed. H320 Causes eye irritation.

#### **Precautionary Statements**

## **Prevention:**

P301 + P330 IF SWALLOWED: rinse mouth. P305+351 IF IN EYES: Rinse continuously with water for several minutes.

## 2.3 Other hazards

PBT Substances: None P Substances: None

Other Hazards No other hazards.

## Product classification and labelling according to Directive 67/548/EEC, European <u>Dangerous</u> <u>Preparations Directive</u> (1999/45/EC), European Regulation 648/2004 and their amendments.

Symbol: Xi, Irritant



| <b>R-phrases:</b> | R41:        | Risk of serious damage to eyes.  |
|-------------------|-------------|--|
| S-phrases:        | S2:<br>S26: | Keep out of the reach of children.<br>In case of contact with eyes, rinse immediately with plenty of water<br>and seek medical advice. |
|                   | S39:        | Wear eye/face protection.  |

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Chemical Composition:

| Ingredients  | CAS Number  | Proportion  | Hazard Code(s)*           |
|--|-------------|-------------|---------------------------|
| Proprietary mixture<br>consisting of the<br>following substances :               |             |             |                           |
| Tonowing substances.   |             |             |                           |
| Decane   | 124-18-5    | 12.5% - 50% | H226; H304                |
| Ethoxylated Fatty<br>Alcohol   | 68439-50-9  | 5% - 12%    | H302; H318; H412          |
| Branched Alcohol polyethoxyethylenated   | 308061-04-3 | 2.5% - 7%   | H302; H318; H412          |
| Amides, C818 (even<br>numbered) and<br>C18unsatd., N, N bis<br>(hydroxyethyl)    | 68155-07-7  | 1% - 3%     | H315; H318; H411          |
| Potassium Hydroxide, solution  | 1310-58-3   | 0.1% - 1%   | H290; H302; H314;<br>H318 |
| Ingredients that do not<br>contribute to the<br>classification of the<br>product | -           | 40% - 70%   | -                         |

\*See section 16 for the full text of the Hazard Code(s) declared above.

Occupational Exposure Limits, if available, are listed in section 8.

# 4. FIRST AID MEASURES

## 4.1. Description of first aid measures

Remove contaminated clothing. If danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary. First aid personnel should pay attention to their own safety.

If inhaled: Keep patient calm, remove to fresh air, seek medical attention.

On skin contact: Adverse effects not expected.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

# 5. FIRE-FIGHTING MEASURES

## 5.1. Extinguishing media

Suitable extinguishing media: water spray, dry powder, foam, carbon dioxide Unsuitable extinguishing media for safety reasons: water jet

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

Cool endangered containers with water-spray.

## 5.3. Advice for fire-fighters

Special protective equipment: Wear a self-contained breathing apparatus. Further information: Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

## 6. ACCIDENTAL RELEASE MEASURES

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

Avoid inhalation. Avoid contact with the eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

## **6.2.** Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

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

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations.

## 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

# 7. HANDLING AND STORAGE

## 7.1. Precautions for safe handling

Avoid contact with eyes. Wash with water after use if available or wipe off thoroughly with a dry towel.

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

Follow label directions carefully. Keep out of reach of children. Keep container tightly sealed when not in use. Do not contaminate water, food, or feed by use or storage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **<u>8.1 Control parameters</u>**

| Substance Name      | Exposure limit values                      |
|---------------------|--|
| Europe              | ACGIH TLV (United States, 6/2013).         |
| Potassium Hydroxide | C: $2 \text{ mg/m}^3$                      |
|                     |  |
| Germany             | TRGS900 AGW (Germany, 9/2013).             |
| Decane              | TWA: $600 \text{ mg/m}^3 8 \text{ hours.}$ |
|                     | PEAK: 1200 mg/m <sup>3</sup> 15 minutes.   |
| Spain               | INSHT (Spain, 3/2013).                     |
| Potassium Hydroxide | STEL: 2 mg/m <sup>3</sup> 15 minutes.      |

## **Recommended monitoring procedures**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres Guide for the application and use of procedures for the assessment of exposure to chemical agents) European Standard EN 482 (Workplace atmospheres General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## **DNELs/DMELs**

| Substance<br>Name  | Туре | Exposure                | Value                        | Population | Effects  |
|--|------|-------------------------|------------------------------|------------|----------|
| Amides, C818<br>(even<br>numbered)<br>and<br>C18unsatd., N,<br>N bis<br>(hydroxyethyl) | DNEL | Long term<br>Dermal     | 4,16 mg/<br>kg bw/day        | Workers    | Systemic |
| (iljaionjealji)  | DNEL | Long term<br>Inhalation | 73,4 mg/m <sup>3</sup>       | Workers    | Systemic |
|  | DNEL | Long term<br>Dermal     | 0,09 mg/<br>cm <sup>2</sup>  | Workers    | Local    |
|  | DNEL | Long term<br>Dermal     | 2,5 mg/kg<br>bw/day          | Consumers  | Systemic |
|  | DNEL | Long term<br>Inhalation | 21,73 mg/<br>m <sup>3</sup>  | Consumers  | Systemic |
|  | DNEL | Long term<br>Oral       | 6,25 mg/kg<br>bw/ day        | Consumers  | Systemic |
|  | DNEL | Long term<br>Dermal     | 0,056 mg/<br>cm <sup>2</sup> | Consumers  | Local    |

## **PNECs**

| Substance Name                      | <b>Compartment Detail</b> | Value          | Method Detail      |
|-------------------------------------|---------------------------|----------------|--------------------|
| Amides, C818 (even<br>numbered) and | Fresh water               | 2,4 µg/l       | Assessment Factors |
| C18unsatd., N, N bis                |                           |                |                    |
| (hydroxyethyl)                      |                           |                |                    |
|                                     | Marine                    | 0,24 μg/l      | Assessment Factors |
|                                     | Sewage Treatment<br>Plant | 830 mg/l       | Assessment Factors |
|                                     | Fresh water sediment      | 14,5 µg/kg dwt | Assessment Factors |
|                                     | Soil                      | 6,48 µg/kg dwt | Assessment Factors |

## 8.2 Exposure Controls

## **Appropriate engineering controls**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

## PERSONAL PROTECTION

Adverse human health effects not expected from simple hand cleaner gel based upon available toxicity information for individual components & laboratory toxicity data for whole product.

| Eye and face protection: | None required. |
|--------------------------|----------------|
| Skin protection:         | None required. |
| Respiratory protection:  | None required. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

## 9.1.1. Appearance

| Physical State:                   | Gel  |
|-----------------------------------|--|
| Color:                            | Light Orange                               |
| Odor:                             | Lemon scent                                |
| 9.1.2. Basic data                 |  |
| <b>Boiling Point Range:</b>       | 90-100 °C at 20°C                          |
| Solubility in water:              | Appreciable                                |
| Flash Point:                      | None                                       |
| Autoignition Temperature:         | None                                       |
| Vapour Pressure:                  | Not available                              |
| Relative vapor density (air= 1) : | >1   |
| Specific Gravity:                 | $0.80 - 0.90 \text{ gr/cm}^3$ at 20 °C     |
| pH value (1% solution):           | 7.0 - 8.0                                  |
| 9.2 Other Information:            | No further relevant information available. |

## **10. STABILITY AND REACTIVITY**

## 10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

## **10.2.** Chemical stability

The product is stable if stored and handled as prescribed/indicated.

## **10.3.** Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

## **10.4.** Conditions to avoid

No special precautions other than good housekeeping of chemicals.

## **10.5. Incompatible materials**

Substances to avoid: strong oxidizing agents.

## 10.6. Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

# **11. TOXICOLOGICAL INFORMATION**

## **<u>11.1 Information on toxicological effects</u>**

## Acute toxicity

| Substance Name                       | Result      | Species | Dose        |
|--------------------------------------|-------------|---------|-------------|
| Decane                               | LD50 Dermal | Rat     | >2000 mg/kg |
|                                      | LD50 Oral   | Rat     | >5000 mg/kg |
| Ethoxylated fatty alcohol            | LD50 Oral   | Rat     | 500 to 2000 |
|                                      |             |         | mg/kg       |
| Branched alcohol                     | LD50 Oral   | Rat     | 500 to 2000 |
| polyethoxyethylenated                |             |         | mg/kg       |
| Amides, C8-18 (even numbered) and    | LD50 Dermal | Rabbit  | >2 g/kg     |
| C18 unsatd., N, N bis (hydroxyethyl) |             |         |             |
|                                      | LD50 Oral   | Rat     | >2000 mg/kg |
| Potassium Hydroxide                  | LD50 Oral   | Rat     | 333 to 388  |
|                                      |             |         | mg/kg       |

## Acute toxicity estimates

Route: Oral ATE value: 2326 mg/kg

## Irritation/Corrosion

Name of Substance: Amides, C8-18 (even numbered) and C18 unsatd., N, N bis (hydroxyethyl)

Species: Rabbit - Result: Skin - moderate irritant. Species: Rabbit - Result: Eyes - severe irritant.

## Sensitizer

| Substance Name                       | Route of exposure | Species    | Result      |
|--------------------------------------|-------------------|------------|-------------|
| Decane                               | Skin              | Guinea pig | Not         |
|                                      |                   |            | sensitizing |
| Amides, C8-18 (even numbered) and    | Skin              | Guinea pig | Not         |
| C18 unsatd., N, N bis (hydroxyethyl) |                   |            | sensitizing |

## Mutagenicity

| Substance Name                       | Test                     | Experiment | Result   |
|--------------------------------------|--------------------------|------------|----------|
| Decane                               | -                        | In vitro.  | Negative |
|                                      |                          | Subject:   | _        |
|                                      |                          | Bacteria   |          |
| Amides, C8-18 (even numbered) and    | OECD 471                 | In vitro.  | Negative |
| C18 unsatd., N, N bis (hydroxyethyl) | <b>Bacterial Reverse</b> | Subject:   | _        |
|                                      | Mutation Test            | Bacteria   |          |
|                                      | OECD 474                 | In vivo.   | Negative |
|                                      | Mammalian                | Subject:   | _        |
|                                      | Erythrocyte              | Mammalian  |          |
|                                      | Micronucleus Test        | - Animal   |          |

## Carcinogenicity

No known significant effects or critical hazards.

## **Reproductive toxicity**

| Substance<br>Name | Maternal<br>toxicity | Fertility | Development<br>toxin | Species | Dose | Exposure |
|-------------------|----------------------|-----------|----------------------|---------|------|----------|
| Decane            | Negative             | Negative  | Negative             | Rat     | Oral | -        |

## Teratogenicity

| Substance Name | Result          | Species | Dose | Exposure |
|----------------|-----------------|---------|------|----------|
| Decane         | Negative - Oral | Rat     | -    | -        |

## Aspiration hazard

| Substance Name | Result                         |
|----------------|--------------------------------|
| Decane         | Aspiration Hazard - Category 1 |

## Potential acute health effects

Inhalation: Not possible to occur.

**Skin contact:** None adverse effect.

**Eye contact:** May cause irritation.

**Ingestion:** Ingestion of small quantities not serious unless aspiration occurs. Aspiration may lead to chemical pneumonitis.

# Potential chronic health effects

| Substance Name                        | Result               | Species     | Dose                     |
|---------------------------------------|----------------------|-------------|--------------------------|
| Decane                                | Sub-acute NOAEL Oral | Rat         | >=1000 mg/kg             |
|                                       | Sub-acute NOAEL      | Rat         | > 6000 mg/m <sup>3</sup> |
|                                       | Inhalation Vapor     |             | _                        |
| Amides, C8-18 (even numbered) and C18 | Sub-acute NOAEL Oral | Rat - Male, | >750 mg/kg               |
| unsatd., N, N bis (hydroxyethyl)      |                      | Female      |                          |
|                                       | Sub-acute NOAEL Oral | Rat - Male, | 50 mg/kg                 |
|                                       |                      | Female      |                          |

## **Conclusion/Summary**

Carcinogenicity: No known significant effects or critical hazards. Mutagenicity: No known significant effects or critical hazards. Teratogenicity: No known significant effects or critical hazards. Developmental effects: No known significant effects or critical hazards. Fertility effects: No known significant effects or critical hazards. Absorption: Not available. Distribution: Not available. Metabolism: Not available. Elimination: Not available. Other information: Not available.

## **12. ECOLOGICAL INFORMATION**

## 12.1 Toxicity

| Substance Name                         | Result                      | Species | Exposure | Test   |
|--|-----------------------------|---------|----------|--|
| Decane                                 | Acute EC50<br>>1000 mg/l    | Algae   | 72 hours | OECD 201 Algae,<br>Growth<br>Inhibition Test |
|  | Acute LC50 18<br>to 24 mg/l | Daphnia | 48 hours | -  |
|  | Acute<br>LC50 >500 mg/l     | Fish    | 96 hours | -  |
|  | Acute<br>NOEC 100 mg/l      | Algae   | 72 hours | OECD 201 Algae,<br>Growth<br>Inhibition Test |
|  | Chronic NOEC<br>1,3 mg/l    | Daphnia | 48 hours | -  |
|  | Chronic NOEC<br>500 mg/l    | Fish    | 96 hours | -  |
| Ethoxylated fatty alcohol              | Acute LC50 >1<br>mg/l       | Fish    | 96 hours | OECD 203                                     |
|  | Chronic NOEC<br>0,14 mg/l   | Algae   | 72 hours | -  |
| Branched alcohol polyethoxyethylenated | Acute LC50 >1<br>mg/l       | Fish    | 96 hours | -  |
|  | Chronic EC50<br>0,17 mg/l   | Daphnia | 21 days  | -  |
| Amides, C8-18 (even                    | Acute EC50                  | Algae   | 72 hours | EU M.C3                                      |

| numbered) and<br>C18 unsatd., N, N bis<br>(hydroxyethyl) | 18,6 mg/l Fresh<br>water                 |         |          |   |
|--|--|---------|----------|---|
|  | Acute EC50 3,2<br>mg/l<br>Fresh water    | Daphnia | 48 hours | OECD 202 <i>Daphnia</i> sp.<br>Acute Immobilization<br>Test and Reproduction<br>Test                |
|  | Acute LC50 2,4<br>mg/l<br>Fresh water    | Fish    | 96 hours | OECD 203 Fish, Acute<br>Toxicity Test   |
|  | Chronic NOEC<br>2 mg/l                   | Algae   | 72 hours | EU Method C.3 (Algal<br>Inhibition test)  |
|  | Chronic NOEC<br>0,07 mg/l Fresh<br>water | Daphnia | 21 days  | OECD 211 <i>Daphnia</i><br><i>Magna</i> Reproduction<br>Test  |
|  | Chronic NOEC<br>0,32 mg/l                | Fish    | 28 days  | OECD 204 Fish,<br>Prolonged Toxicity<br>Test: 14 Day Study and<br>215 Fish, Juvenile<br>Growth Test |

# 12.2 Persistence and Degradability

| Substance Name                       | Test                      | Result                 |
|--------------------------------------|---------------------------|------------------------|
| Amides, C8-18 (even numbered) and    | OECD 301D Ready           | > 60 % Readily 28 days |
| C18 unsatd., N, N bis (hydroxyethyl) | Biodegradability - Closed |                        |
|                                      | Bottle Test               |                        |

| Substance Name        | Aquatic half-life | Photolysis  | Biodegradability |
|-----------------------|-------------------|-------------|------------------|
| Decane                | -                 | < 28 day(s) | Readily          |
| Ethoxylated fatty     | -                 | -           | Readily          |
| alcohol               |                   |             |                  |
| Branched alcohol      | -                 | -           | Readily          |
| polyethoxyethylenated |                   |             |                  |
| Amides, C8-18 (even   | -                 | -           | Readily          |
| numbered) and         |                   |             |                  |
| C18 unsatd., N, N bis |                   |             |                  |
| (hydroxyethyl)        |                   |             |                  |

# 12.3 Bioaccumulative potential

| Substance Name                    | LogPow | BCF   | Potential |
|-----------------------------------|--------|-------|-----------|
| Decane                            | 5.86   | -     | high      |
| Amides, C8-18 (even numbered) and | -      | 65.36 | low       |
| C18 unsatd., N, N bis             |        |       |           |
| (hydroxyethyl)                    |        |       |           |

## 12.4 Mobility in soil

Soil/water partition coefficient (KOC): Not available. Mobility: Not available.

## 12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification.

## **12.6.** Additional information

No known significant effects or critical hazards.

The product is not harmful to the marine environment as per paragraphs 1.7.4 and 1.7.5. of Resolution MEPC. 219 (63) /Annex 24 - 2012 adoption of IMO's MARPOL Annex V.

## 13. DISPOSAL CONSIDERATIONS

## **13.1.** Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

## 14. TRANSPORT INFORMATION

14.1 Not classified as dangerous material for the transportation, according to UN, IMDG, ADR/RID, U.S. D.O.T. and IATA/ICAO codes.

## **15. REGULATORY INFORMATION**

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

## **15.2 Chemical Safety Assessment**

A CSA has been carried out for the raw materials in this product, from the raw materials manufacturers (when needed to be carried out).

## **16. OTHER INFORMATION**

## 16.1 Full text of Hazard Code(s) referred in Section 3

H226: Flammable liquid and vapor. H290: May be corrosive to metals. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

## **16.2 Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road). RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail). IMDG: International Maritime Code for Dangerous Goods. IATA: International Air Transport Association. ICAO: International Civil Aviation Organization. bw: Body weight. Carc.: Carcinogenicity. CAS number: Chemical Abstracts Service number. CLP: Classification Labelling Packaging Regulation. CSA: Chemical Safety Assessment. CSR: Chemical Safety Report. DNEL: Derived No Effect Level. dw: Dry weight. EC number: EINECS and ELINCS number. EC: European Commission. EC50: Half maximal effective concentration. EINECS: European Inventory of Existing Commercial Chemical Substances. ELINCS: European List of Notified Chemical Substances. EmS: Emergency Schedule. ERC: Environmental Release Category. ES: Exposure scenario. food: oral feed. GHS: Globally Harmonized System of Classification and Labelling of Chemicals. Irrit.: Irritation. LC50: Lethal concentration, 50 %. LD50: Median Lethal dose. LOAEC: Lowest Observed Adverse Effect Concentration. LOAEL: Lowest Observed Adverse Effect Level. MK value: Maximum Concentration value. NCO: An international corporation that provides customer service contracting. NOAEC: No Observed Adverse Effect Concentration. NOAEL: No Observed Adverse Effect Level. NOEC: No Observed Effect Concentration. OECD: Organisation for Economic Cooperation and Development. PBT: Persistent, Bioaccumulative and Toxic. PNEC: Predicted No Effect Concentration. PROC: Process category. REACH: The Registration, Evaluation, Authorisation and Restriction of Chemicals. Resp.: Respiratory. Sens.: Sensitization. STEL value: Short Term Exposure Limit value. STOT RE: Specific target organ toxicity — repeated exposure. STOT SE: Specific target organ toxicity — single exposure. STOT: Specific Target Organ Toxicity. STP: Sewage Treatment Plant. SU: Sector of use.

Tox.: Toxicity. TWA value: Time Weighted Average value. vPvB: Very Persistent and Very Bioaccumulative.

## **16.3 Notice to reader**

All information, instructions and statements contained in this Material Safety Data Sheet are compiled in accordance with European Directives, corresponding national legislation and on the basis of information given by our suppliers.

The information disclosed in this Material Safety Data Sheet (which supersedes all previous versions) is believed to be correct, at the date of issue, to the best of our current knowledge and experience. It only relates to the specific product designated herein and it may not be valid when said product is used in combination with any other products or in any processed form, unless specified in the text. This document aims to provide the necessary health and safety information of the product and is not to be considered a warranty or quality specification. It is the responsibility of the recipient of this Material Safety Data Sheet to ensure that information given here is read and understood by all who use, handle, dispose of or in any way come in contact with the product.

Also, it is the responsibility of the user to comply with local legislation relating to safety, health, environment and waste management. Data and information provided concerning the product are informative, exclusively presented to the customer.