



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CAR WASH MICRO POWDER FF

Creation date 05th October 2020  
Revision date Version 1.0

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

- 1.1. Product identifier**  
Substance / mixture CAR WASH MICRO POWDER FF mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Mixture's intended use Phosphate-free powder for contactless car wash  
Mixture uses advised against The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**  
**Manufacturer**  
Name or trade name TENZI Sp. z o.o.  
Address Skarbimierzycze 20, Dołuje, 72-002 Poland  
VAT Reg No PL8512583405  
Phone +48 91 3119777  
E-mail info@tenzi.pl  
Web address www.tenzi.pl
- Competent person responsible for the safety data sheet**  
Name technolog@tenzi.pl
- 1.4. Emergency telephone number**  
National Health Service (NHS) 111  
National poisoning information centre Scotland, NHS 24: 111

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
The mixture is classified as dangerous.

Eye Dam. 1, H318  
STOT RE 2, H373

Full text of all classifications and hazard statements is given in the section 16.

#### Most serious adverse effects on human health and the environment

Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure.

- 2.2. Label elements**

#### Hazard pictogram



#### Signal word

Danger

#### Hazardous substances

Tetrasodium salt of ethylenediaminetetraacetic acid

#### Hazard statements

H318 Causes serious eye damage.  
H373 May cause damage to organs through prolonged or repeated exposure.

#### Precautionary statements

P260 Do not breathe dust.  
P280 Wear eye protection.



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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.

### Supplemental information

5-<15 % EDTA and salts thereof, <5 % anionic surfactants, <5 % non-ionic surfactants

### Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

### 2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

| Identification numbers   | Substance name                                      | Content in % weight | Classification according to Regulation (EC) No 1272/2008                                 | Note |
|--|---|---------------------|--|------|
| Index: 011-005-00-2<br>CAS: 497-19-8<br>EC: 207-838-8<br>Registration number:<br>01-2119485498-19-XXXX   | sodium carbonate                                    | >50                 | Eye Irrit. 2, H319   |      |
| Index: 607-428-00-2<br>CAS: 10378-23-1<br>EC: 200-573-9<br>Registration number:<br>01-2119486762-27-XXXX | Tetrasodium salt of ethylenediaminetetraacetic acid | <15                 | Acute Tox. 4, H302+H332<br>Eye Dam. 1, H318<br>STOT RE 2, H373                           |      |
| CAS: 68439-45-2<br>Registration number:<br>polimer   | Alcohols, C6-12, ethoxylated 5-20 TE                | <2                  | Acute Tox. 4, H302<br>Eye Dam. 1, H318   |      |
| CAS: 85586-07-8<br>EC: 287-809-4<br>Registration number:<br>01-2119489463-28-XXXX                        | Sodium lauryl sulfate                               | <1,5                | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412 |      |

Full text of all classifications and hazard statements is given in the section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

#### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.



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### If in eyes

Do not rub your eyes – it could lead to mechanical damage of the cornea. Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

### If swallowed

DO NOT INDUCE VOMITING - even the induced vomiting can cause complications as in case of detergents and other foaming substances.

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

##### If inhaled

Inhaling dust can cause corrosion of the breathing system. Cough, headache.

##### If on skin

Not expected.

##### If in eyes

Causes serious eye damage.

##### If swallowed

Corrosion of the digestion system can occur.

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

Symptomatic treatment.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

##### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### 5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

### SECTION 6: Accidental release measures

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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale dust. Prevent contact with skin and eyes.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

#### 6.4. Reference to other sections

See the Section 7, 8 and 13.



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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Do not inhale dust. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in a tightly closed, original plastic container (low density polyethylene LDPE). Store this product in a dry environment that will be maintained at 5°C - 35°C temperature with a good ventilation system and an easy washable, nonabsorbable alkaline resistant floor. DO NOT expose the product to sunlight and keep away from heat, frost, sparks, flame and source of ignition.

Material of package

LDPE (4), Low density polyethylene (Plastics)



min 5 °C, max 35 °C

Storage temperature

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

not available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### DNEL

Tetrasodium salt of ethylenediaminetetraacetic acid

| Workers / consumers | Route of exposure | Value                 | Effect                | Determining method |
|---------------------|-------------------|-----------------------|-----------------------|--------------------|
| Workers             | Inhalation        | 1.5 mg/m <sup>3</sup> | Local chronic effects |                    |
| Workers             | Inhalation        | 3 mg/m <sup>3</sup>   | Local acute effects   |                    |
| Consumers           | Inhalation        | 0.6 mg/m <sup>3</sup> | Local chronic effects |                    |
| Consumers           | Inhalation        | 1.2 mg/m <sup>3</sup> | Local acute effects   |                    |
| Consumers           | Oral              | 25 mg/kg bw/day       | Local chronic effects |                    |

##### PNEC

Tetrasodium salt of ethylenediaminetetraacetic acid

| Route of exposure            | Value                       | Determining method |
|------------------------------|-----------------------------|--------------------|
| Drinking water               | 2.2 mg/l                    |                    |
| Seawater                     | 0.22 mg/l                   |                    |
| Soil (agricultural)          | 0.72 mg/kg of dry substance |                    |
| Water (intermittent release) | 1.2 mg/l                    |                    |

#### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

##### Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

##### Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.



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### Respiratory protection

Use a mask with anti-dust filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

### Thermal hazard

Data not available.

### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

## SECTION 9: Physical and chemical properties

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

|  |   |
|--|---|
| Appearance                                   | powder                                    |
| physical state                               | solid at 20 °C                            |
| color  | white                                     |
| Odour  | Characteristic for the raw materials used |
| Odour threshold                              | data not available                        |
| pH   | 12 (1% solution at 20 °C)                 |
| Melting point/freezing point                 | data not available                        |
| Initial boiling point and boiling range      | data not available                        |
| Flash point                                  | data not available                        |
| Evaporation rate                             | data not available                        |
| Flammability (solid, gas)                    | data not available                        |
| Upper/lower flammability or explosive limits |   |
| flammability limits                          | data not available                        |
| explosive limits                             | data not available                        |
| Vapour pressure                              | data not available                        |
| Vapour density                               | data not available                        |
| Relative density                             | 0.950 g/cm <sup>3</sup> (+-) 0.100        |
| Solubility(ies)                              |   |
| solubility in water                          | soluble                                   |
| solubility in fats                           | data not available                        |
| Partition coefficient: n-octanol/water       | data not available                        |
| Auto-ignition temperature                    | data not available                        |
| Decomposition temperature                    | data not available                        |
| Viscosity                                    | data not available                        |
| Explosive properties                         | data not available                        |
| Oxidising properties                         | data not available                        |

### 9.2. Other information

|                      |                    |
|----------------------|--------------------|
| Density              | data not available |
| ignition temperature | data not available |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

not available

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Unknown.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.



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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

No toxicological data is available for the mixture.

##### Acute toxicity

Based on available data the classification criteria are not met.

Alcohols, C6-12, ethoxylated 5-20 TE

| Route of exposure | Parameter        | Value          | Time of exposure | Species                          | Sex | Source                |
|-------------------|------------------|----------------|------------------|----------------------------------|-----|-----------------------|
| Oral              | LD <sub>50</sub> | 500-2000 mg/kg |                  | Rat ( <i>Rattus norvegicus</i> ) |     | karta charakterystyki |

Sodium lauryl sulfate

| Route of exposure | Parameter        | Value       | Time of exposure | Species | Sex | Source                |
|-------------------|------------------|-------------|------------------|---------|-----|-----------------------|
| Oral              | ARE              | 1800 mg/kg  |                  | Rat     |     | karta charakterystyki |
| Dermal            | LD <sub>50</sub> | >2000 mg/kg |                  | Rabbit  |     | karta charakterystyki |

Tetrasodium salt of ethylenediaminetetraacetic acid

| Route of exposure | Parameter        | Value                | Time of exposure | Species | Sex | Source                |
|-------------------|------------------|----------------------|------------------|---------|-----|-----------------------|
| Oral              | LD <sub>50</sub> | 1780-2000 mg/kg      |                  | Rat     |     | karta charakterystyki |
| Inhalation        | LOAEC            | 30 mg/m <sup>3</sup> |                  | Rat     | M   | karta charakterystyki |

##### Skin corrosion/irritation

Based on available data the classification criteria are not met.

Sodium lauryl sulfate

| Route of exposure | Result     | Time of exposure | Species | Source                |
|-------------------|------------|------------------|---------|-----------------------|
|                   | Irritating |                  |         | karta charakterystyki |

Tetrasodium salt of ethylenediaminetetraacetic acid

| Route of exposure | Result     | Time of exposure | Species | Source                |
|-------------------|------------|------------------|---------|-----------------------|
|                   | Irritating |                  |         | karta charakterystyki |

##### Serious eye damage/irritation

Causes serious eye damage.

Alcohols, C6-12, ethoxylated 5-20 TE

| Route of exposure | Result             | Time of exposure | Species | Source                |
|-------------------|--------------------|------------------|---------|-----------------------|
|                   | Serious eye damage |                  |         | karta charakterystyki |



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Sodium lauryl sulfate

| Route of exposure | Result             | Time of exposure | Species | Source                |
|-------------------|--------------------|------------------|---------|-----------------------|
|                   | Serious eye damage |                  |         | karta charakterystyki |

Tetrasodium salt of ethylenediaminetetraacetic acid

| Route of exposure | Result             | Time of exposure | Species | Source                |
|-------------------|--------------------|------------------|---------|-----------------------|
|                   | Serious eye damage |                  |         | karta charakterystyki |

### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

### Carcinogenicity

Based on available data the classification criteria are not met.

Sodium lauryl sulfate

| Route of exposure | Parameter | Value       | Result           | Species | Sex | Source                |
|-------------------|-----------|-------------|------------------|---------|-----|-----------------------|
| Oral              | NOEL      | >1125 mg/kg | Not carcinogenic | Rat     |     | karta charakterystyki |

### Reproductive toxicity

Based on available data the classification criteria are not met.

Sodium lauryl sulfate

| Effect | Parameter | Value     | Result | Species | Sex | Source                |
|--------|-----------|-----------|--------|---------|-----|-----------------------|
|        | NOEL      | 250 mg/kg |        | Rat     |     | karta charakterystyki |

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

### Aspiration hazard

Based on available data the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity



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### Acute toxicity

Data for the mixture are not available.

Sodium lauryl sulfate

| Parameter        | Value       | Time of exposure | Species                      | Environment | Source                |
|------------------|-------------|------------------|------------------------------|-------------|-----------------------|
| LC <sub>50</sub> | 3.6 mg/l    | 96 hour          | Fishes (Oncorhynchus mykiss) |             | karta karakteryst yki |
| NOEC             | >1.357 mg/l | 42 hour          | Fishes (Oncorhynchus mykiss) |             | karta karakteryst yki |
| EC <sub>50</sub> | 4.7 mg/l    | 48 hour          | Daphnia (Daphnia magna)      |             | karta karakteryst yki |

Tetrasodium salt of ethylenediaminetetraacetic acid

| Parameter        | Value      | Time of exposure | Species                        | Environment | Source                |
|------------------|------------|------------------|--------------------------------|-------------|-----------------------|
| EC <sub>50</sub> | >60 mg/l   | 72 hour          | Algae and other aquatic plants |             | karta karakteryst yki |
| NOEC             | >48.4 mg/l | 72 hour          | Algae and other aquatic plants |             | karta karakteryst yki |
| LOEC             | >60.6 mg/l |                  | Algae and other aquatic plants |             | karta karakteryst yki |
| LC <sub>50</sub> | 41 mg/l    | 96 hour          | Fishes                         |             |                       |
| NOEC             | ≥25.7 mg/l | 35 day           | Fishes                         |             | karta karakteryst yki |
| EC <sub>50</sub> | 140 mg/l   | 48 hour          | Crustaceans                    |             | karta karakteryst yki |
| NOEC             | 25 mg/l    | 21 day           |                                |             | karta karakteryst yki |

### 12.2. Persistence and degradability

#### Biodegradability

Alcohols, C6-12, ethoxylated 5-20 TE

| Parameter | Value | Time of exposure | Environment | Result               | Source                |
|-----------|-------|------------------|-------------|----------------------|-----------------------|
|           | 64 %  | 28 day           |             | Easily biodegradable | karta karakteryst yki |

Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended.

### 12.3. Bioaccumulative potential

Data not available.

### 12.4. Mobility in soil





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Sodium lauryl sulfate

| Parameter | Value           | Environment | Surrounding temperature | Source                |
|-----------|-----------------|-------------|-------------------------|-----------------------|
| Koc       | 316-446         |             | 2°C                     | karta charakterystyki |
| Koc       | 1337-1567 mg/kg |             | 2°C                     | karta charakterystyki |

Data not available.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Other adverse effects

Data not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialised company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Waste type code

16 03 04 inorganic wastes other than those mentioned in 16 03 03

#### Packaging waste type code

15 01 02 plastic packaging

## SECTION 14: Transport information

### 14.1. UN number

Not subject to ADR

### 14.2. UN proper shipping name

not available

### 14.3. Transport hazard class(es)

not available

### 14.4. Packing group

not available

### 14.5. Environmental hazards

No

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available



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### SECTION 15: Regulatory information

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended.

#### 15.2. Chemical safety assessment

For mixture:

A Chemical Safety Assessment has not been carried out.

For the following substances, mixtures:

Sodium carbonate: the manufacturer has performed a chemical safety assessment

Ethylendiaminetetraacetic acid tetra-sodium salt: the manufacturer has performed a chemical safety assessment

Alcohols, C6-12, ethoxylated 5-20 TE: not applicable

Sodium lauryl sulfate: not required

### SECTION 16: Other information

#### A list of standard risk phrases used in the safety data sheet

|           |  |
|-----------|--|
| H302      | Harmful if swallowed.  |
| H315      | Causes skin irritation.  |
| H318      | Causes serious eye damage.   |
| H319      | Causes serious eye irritation.                                     |
| H373      | May cause damage to organs through prolonged or repeated exposure. |
| H412      | Harmful to aquatic life with long lasting effects.                 |
| H302+H332 | Harmful if swallowed or if inhaled.                                |

#### Guidelines for safe handling used in the safety data sheet

|                |  |
|----------------|--|
| P280           | Wear eye protection.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310           | Immediately call a POISON CENTER/doctor.   |
| P260           | Do not breathe dust.   |

#### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

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

|                  |   |
|------------------|---|
| ADR              | European agreement concerning the international carriage of dangerous goods by road               |
| BCF              | Bioconcentration Factor   |
| CAS              | Chemical Abstracts Service  |
| CLP              | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL             | Derived no-effect level   |
| EC               | Identification code for each substance listed in EINECS   |
| EC <sub>50</sub> | Concentration of a substance when it is affected 50% of the population                            |
| EINECS           | European Inventory of Existing Commercial Chemical Substances                                     |
| EmS              | Emergency plan  |
| EU               | European Union  |
| IATA             | International Air Transport Association   |
| IBC              | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals       |
| IC <sub>50</sub> | Concentration causing 50% blockade  |
| ICAO             | International Civil Aviation Organization   |
| IMDG             | International Maritime Dangerous Goods  |
| INCI             | International Nomenclature of Cosmetic Ingredients  |



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|                     |   |
|---------------------|---|
| ISO                 | International Organization for Standardization  |
| IUPAC               | International Union of Pure and Applied Chemistry   |
| LC <sub>50</sub>    | Lethal concentration of a substance in which it can be expected death of 50% of the population    |
| LD <sub>50</sub>    | Lethal dose of a substance in which it can be expected death of 50% of the population             |
| LOAEC               | Lowest observed adverse effect concentration  |
| LOAEL               | Lowest observed adverse effect level  |
| log K <sub>ow</sub> | Octanol-water partition coefficient   |
| MARPOL              | International Convention for the Prevention of Pollution From Ships                               |
| NOAEC               | No observed adverse effect concentration  |
| NOAEL               | No observed adverse effect level  |
| NOEC                | No observed effect concentration  |
| NOEL                | No observed effect level  |
| OEL                 | Occupational Exposure Limits  |
| PBT                 | Persistent, Bioaccumulative and Toxic   |
| PNEC                | Predicted no-effect concentration   |
| ppm                 | Parts per million   |
| REACH               | Registration, Evaluation, Authorisation and Restriction of Chemicals                              |
| RID                 | Agreement on the transport of dangerous goods by rail   |
| UN                  | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB                | Substances of unknown or variable composition, complex reaction products or biological materials  |
| VOC                 | Volatile organic compounds  |
| vPvB                | Very Persistent and very Bioaccumulative  |
| Acute Tox.          | Acute toxicity  |
| Aquatic Chronic     | Hazardous to the aquatic environment (chronic)  |
| Eye Dam.            | Serious eye damage  |
| Eye Irrit.          | Eye irritation  |
| Skin Irrit.         | Skin irritation   |
| STOT RE             | Specific target organ toxicity - repeated exposure  |

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### More information

Classification procedure - calculation method.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.