


**SUNIK STRONG - Concentrated liquid detergent and disinfectant - lemon, forest,ocean**  
**SUNIK STRONG**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** SUNIK STRONG - Concentrated liquid detergent and disinfectant - lemon, forest,ocean  
Sodium hypochlorite; Sodium hydroxide
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Disinfectant cleaner  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:** GOLD DROP Sp. z o.o.  
Ul. Rzeczna 11d  
34-600 LIMANOWA - POLAND  
Phone.: +48 18 3376137 -  
Fax: +48 18 3376117  
aleksandra.gorczycka@golddrop.com.pl /  
malgorzata.wilk@golddrop.com  
www.golddrop.eu
- 1.4 Emergency telephone number:** Emergency Telephone number: +48 12 4119999 ,  
Toxicological Information Centre, Jagiellonian University  
Medical College Cracow ; English  
Centre of Emergency Notification 112

**SECTION 2: HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture:**  
**CLP Regulation (EC) n° 1272/2008:**  
Classification of this product has been carried out in accordance with CLP Regulation (EC) n° 1272/2008.  
Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400  
Eye Dam. 1: Serious eye damage, Category 1, H318  
Skin Corr. 1A: Skin corrosion, Category 1A, H314
- 2.2 Label elements:**  
**CLP Regulation (EC) n° 1272/2008:**  
**Danger**  
  
**Hazard statements:**  
Aquatic Acute 1: H400 - Very toxic to aquatic life  
Skin Corr. 1A: H314 - Causes severe skin burns and eye damage  
**Precautionary statements:**  
P102: Keep out of reach of children  
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing  
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 or doctor/physician  
P405: Store locked up  
**Supplementary information:**  
EUH206: Warning! Do not use together with other products. May release dangerous gases (chlorine)  
**Substances that contribute to the classification**  
Sodium hypochlorite; N,N-dimethyltetradecylamine N-oxide; Sodium hydroxide  
Read label before use.  
Wash hands thoroughly after handling.  
Wear protective gloves/eye protection.  
Do not breathe vapours
- 2.3 Other hazards:**  
The mixture does not meet the PBT or vPvB criteria.  
Biocidal product.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substance:**




Non-applicable

**3.2 Mixture:**

**Chemical description:** Aqueous mixture composed of chlorine bleach compounds, sodium and tensoactives

**Components:**

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

| Identification   | Chemical name/Classification  | Concentration  |
|--|---|--|
| CAS: 7681-52-9<br>EC: 231-668-3<br>Index: 017-011-00-1<br>REACH: 01-2119488154-34-XXXX   | <b>Sodium hypochlorite</b><br>Regulation 1272/2008 Aquatic Acute 1: H400; Skin Corr. 1B: H314 - Danger  | ATP CLP00<br><br><b>3,3 - &lt;5 %</b>     |
| CAS: 3332-27-2<br>EC: 222-059-3<br>Index: Non-applicable<br>REACH: 01-2119949262-37-XXXX | <b>N,N-dimethyltetradecylamine N-oxide</b><br>Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger | Self-classified<br><br><b>1 - &lt;3 %</b> |
| CAS: 1310-73-2<br>EC: 215-185-5<br>Index: 011-002-00-6<br>REACH: 01-2119457892-27-XXXX   | <b>Sodium hydroxide</b><br>Regulation 1272/2008 Skin Corr. 1A: H314 - Danger  | ATP CLP00<br><br><b>0,5-0,8 %</b>         |

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 and 16.

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

Request medical assistance immediately, showing the SDS of this product.

**By inhalation:**

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspiration:**

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

In case of accident by-inhalation-Provide the victim to fresh air, keep at rest, if necessary, call a doctor

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media:**

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

**5.2 Special hazards arising from the substance or mixture:**

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**SECTION 5: FIREFIGHTING MEASURES (continue)**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

**6.2 Environmental precautions:**

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

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

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling:**

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

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

A.- Technical measures for storage

|                |           |
|----------------|-----------|
| Minimum Temp.: | 5 °C      |
| Maximum Temp.: | 30 °C     |
| Maximum time:  | 12 Months |

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**Other information:**

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### SECTION 7: HANDLING AND STORAGE (continue)

Dry rooms without solar access and with efficient ventilation. Avoid heat sources and contact with foods and acidic proucts. Store in original packing.

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

Liquid effectively whitens, removes stains, disinfects. It has bactericidal and fungicidal properties. Recommended for cleaning and disinfecting toilets, bathrooms in homes, public places and workplaces, as well as in hospitals, health care facilities.

In the medical area has bactericidal activity and drożdżobójcze at effective concentrations. 27%

Please strictly follow the information given on the label of the preparation

Do not use metal, metallized, lacquered, enamelled.

Do not use the equipment, vessels with special surfaces. Do not use undiluted liquid on the floor

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

| Identification   |  | Environmental limits |                       |
|--|--|----------------------|-----------------------|
| Sodium hypochlorite<br>CAS: 7681-52-9<br>EC: 231-668-3 |  | IOELV (8h)           |                       |
|  |  | IOELV (STEL)         | 0,5 ppm               |
|  |  | Year                 | 2015                  |
|  |  |                      | 1,5 mg/m <sup>3</sup> |

#### DNEL (Workers):

| Identification   |            | Short exposure        |                       | Long exposure          |                        |
|--|------------|-----------------------|-----------------------|------------------------|------------------------|
|  |            | Systemic              | Local                 | Systemic               | Local                  |
| Sodium hypochlorite<br>CAS: 7681-52-9<br>EC: 231-668-3                 | Oral       | Non-applicable        | Non-applicable        | Non-applicable         | Non-applicable         |
|  | Dermal     | Non-applicable        | Non-applicable        | Non-applicable         | Non-applicable         |
|  | Inhalation | 3,1 mg/m <sup>3</sup> | 3,1 mg/m <sup>3</sup> | 1,55 mg/m <sup>3</sup> | 1,55 mg/m <sup>3</sup> |
| N,N-dimethyltetradecylamine N-oxide<br>CAS: 3332-27-2<br>EC: 222-059-3 | Oral       | Non-applicable        | Non-applicable        | Non-applicable         | Non-applicable         |
|  | Dermal     | Non-applicable        | Non-applicable        | Non-applicable         | Non-applicable         |
|  | Inhalation | Non-applicable        | Non-applicable        | 6,2 mg/m <sup>3</sup>  | Non-applicable         |
| Sodium hydroxide<br>CAS: 1310-73-2<br>EC: 215-185-5                    | Oral       | Non-applicable        | Non-applicable        | Non-applicable         | Non-applicable         |
|  | Dermal     | Non-applicable        | Non-applicable        | Non-applicable         | Non-applicable         |
|  | Inhalation | Non-applicable        | Non-applicable        | Non-applicable         | 1 mg/m <sup>3</sup>    |

#### DNEL (General population):

| Identification   |            | Short exposure        |                       | Long exposure          |                        |
|--|------------|-----------------------|-----------------------|------------------------|------------------------|
|  |            | Systemic              | Local                 | Systemic               | Local                  |
| Sodium hypochlorite<br>CAS: 7681-52-9<br>EC: 231-668-3 | Oral       | Non-applicable        | Non-applicable        | 0,26 mg/kg             | Non-applicable         |
|  | Dermal     | Non-applicable        | Non-applicable        | Non-applicable         | Non-applicable         |
|  | Inhalation | 3,1 mg/m <sup>3</sup> | 3,1 mg/m <sup>3</sup> | 1,55 mg/m <sup>3</sup> | 1,55 mg/m <sup>3</sup> |
| Sodium hydroxide<br>CAS: 1310-73-2<br>EC: 215-185-5    | Oral       | Non-applicable        | Non-applicable        | Non-applicable         | Non-applicable         |
|  | Dermal     | Non-applicable        | Non-applicable        | Non-applicable         | Non-applicable         |
|  | Inhalation | Non-applicable        | Non-applicable        | Non-applicable         | 1 mg/m <sup>3</sup>    |

#### PNEC:

| Identification   |              |                |                         |
|--|--------------|----------------|-------------------------|
| Sodium hypochlorite<br>CAS: 7681-52-9<br>EC: 231-668-3                 | STP          | 0,03 mg/L      | Fresh water             |
|  | Soil         | Non-applicable | Marine water            |
|  | Intermittent | 0,00026 mg/L   | Sediment (Fresh water)  |
|  | Oral         | 11,1 g/kg      | Sediment (Marine water) |
| N,N-dimethyltetradecylamine N-oxide<br>CAS: 3332-27-2<br>EC: 222-059-3 | STP          | 24 mg/L        | Fresh water             |
|  | Soil         | 1,02 mg/kg     | Marine water            |
|  | Intermittent | 0,0335 mg/L    | Sediment (Fresh water)  |
|  | Oral         | 11,1 g/kg      | Sediment (Marine water) |

#### 8.2 Exposure controls:

A.- General security and hygiene measures in the work place

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)**

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

**B.- Respiratory protection**

The use of protection equipment will be necessary if a mist forms or if the professional exposure limits are exceeded.

**C.- Specific protection for the hands**

Non-applicable

**D.- Ocular and facial protection**

Non-applicable

**E.- Bodily protection**

Non-applicable

**F.- Additional emergency measures**

It is not necessary to take additional emergency measures.

Use eye and face protection whenever there is a risk of skin or eye contamination  
For hypochlorite - rubber gloves polyacrylonitrile

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:

|                           |                             |
|---------------------------|-----------------------------|
| V.O.C. (Supply):          | 0 % weight                  |
| V.O.C. density at 20 °C:  | 0 kg/m <sup>3</sup> (0 g/L) |
| Average carbon number:    | 10                          |
| Average molecular weight: | 154,3 g/mol                 |

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

|                          |                                     |
|--------------------------|-------------------------------------|
| Physical state at 20 °C: | Liquid                              |
| Appearance:              | Dense                               |
| Color:                   | <input type="checkbox"/> Colourless |
| Odor:                    | Chlorine                            |

**Volatility:**

|  |                   |
|--|-------------------|
| Boiling point at atmospheric pressure: | 100 °C            |
| Vapour pressure at 20 °C:              | 2350 Pa           |
| Vapour pressure at 50 °C:              | 12381 Pa (12 kPa) |
| Evaporation rate at 20 °C:             | Non-applicable *  |

**Product description:**

|                               |                                  |
|-------------------------------|----------------------------------|
| Density at 20 °C:             | Non applicable                   |
| Relative density at 20 °C:    | 1,046 - 1,054g / cm <sup>3</sup> |
| Dynamic viscosity at 20 °C:   | Non-applicable *                 |
| Kinematic viscosity at 20 °C: | Non-applicable *                 |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)**

|  |                        |
|--|------------------------|
| Kinematic viscosity at 40 °C:                | Non-applicable *       |
| Concentration:                               | Non-applicable *       |
| pH:  | 12 - 14                |
| Vapour density at 20 °C:                     | Non-applicable *       |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable *       |
| Solubility in water at 20 °C:                | Non-applicable *       |
| Solubility properties:                       | Highly water-soluble   |
| Decomposition temperature:                   | Non-applicable *       |
| Melting point/freezing point:                | Non-applicable *       |
| <b>Flammability:</b>                         |                        |
| Flash Point:                                 | Non Flammable (>60 °C) |
| Autoignition temperature:                    | 225 °C                 |
| Lower flammability limit:                    | Non-applicable *       |
| Upper flammability limit:                    | Non-applicable *       |

**9.2 Other information:**

|                           |                  |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index:         | Non-applicable * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

**10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight       | Humidity       |
|--------------------|------------------|-------------------------|----------------|----------------|
| Not applicable     | Not applicable   | Not applicable          | Not applicable | Not applicable |

**10.5 Incompatible materials:**

| Acids      | Water          | Combustive materials | Combustible materials | Others                    |
|------------|----------------|----------------------|-----------------------|---------------------------|
| Precaution | Not applicable | Precaution           | Not applicable        | NH3, Produces toxic gases |

amines, ammonium compounds, hydrocarbons

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A.- Ingestion:

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**SECTION 11: TOXICOLOGICAL INFORMATION (continue)**

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Corrosive product, its consumption causes burns destroying the full thickness of fabrics. For more information on the secondary effects of contact with the skin see section 2.
- B- Inhalation:
  - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract
- C- Contact with the skin and the eyes:
  - Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
  - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensiblizing effects. For more information see section 3.
  - Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT)-time exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

| Identification   |                 | Acute toxicity |  | Genus |
|--|-----------------|----------------|--|-------|
| Sodium hypochlorite<br>CAS: 7681-52-9<br>EC: 231-668-3                 | LD50 oral       | 8910 mg/kg     |  | Rat   |
|  | LD50 dermal     | Non-applicable |  |       |
|  | LC50 inhalation | Non-applicable |  |       |
| N,N-dimethyltetradecylamine N-oxide<br>CAS: 3332-27-2<br>EC: 222-059-3 | LD50 oral       | 1495 mg/kg     |  | Rat   |
|  | LD50 dermal     | Non-applicable |  |       |
|  | LC50 inhalation | Non-applicable |  |       |

**SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

**12.1 Toxicity:**

| Identification   |      | Acute toxicity    |  | Specie        | Genus      |
|--|------|-------------------|--|---------------|------------|
| Sodium hypochlorite<br>CAS: 7681-52-9<br>EC: 231-668-3 | LC50 | Non-applicable    |  |               |            |
|  | EC50 | 0,032 mg/L (48 h) |  | Daphnia magna | Crustacean |
|  | EC50 | Non-applicable    |  |               |            |

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### SECTION 12: ECOLOGICAL INFORMATION (continue)

| Identification                      |      | Acute toxicity   | Specie                    | Genus      |
|-------------------------------------|------|------------------|---------------------------|------------|
| N,N-dimethyltetradecylamine N-oxide | LC50 | 10,3 mg/L (96 h) | Brachydanio rerio         | Fish       |
| CAS: 3332-27-2                      | EC50 | 11,1 mg/L (48 h) | Daphnia magna             | Crustacean |
| EC: 222-059-3                       | EC50 | 0,81 mg/L (72 h) | Selenastrum capricornutum | Algae      |
| Sodium hydroxide                    | LC50 | 189 mg/L (48 h)  | Leuciscus idus            | Fish       |
| CAS: 1310-73-2                      | EC50 | 33 mg/L          | Crangon crangon           | Crustacean |
| EC: 215-185-5                       | EC50 | Non-applicable   |                           |            |

#### 12.2 Persistence and degradability:

Not available

#### 12.3 Bioaccumulative potential:

Not available

#### 12.4 Mobility in soil:

| Identification                      |                 | Absorption/desorption |            | Volatility       |
|-------------------------------------|-----------------|-----------------------|------------|------------------|
| N,N-dimethyltetradecylamine N-oxide | Koc             | 222,5                 | Henry      | 1,8E-8 Pa·m³/mol |
| CAS: 3332-27-2                      | Conclusion      | Moderate              | Dry soil   | No               |
| EC: 222-059-3                       | Surface tension | 32400 N/m (21 °C)     | Moist soil | No               |

#### 12.5 Results of PBT and vPvB assessment:

Non-applicable

#### 12.6 Other adverse effects:

Due to the high pH - poses a threat to biological sewage plants.  
Sodium hypochlorite because of the content of chlorine destroys organic life

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

| Code      | Description                                | Waste class (Regulation (EU) No 1357/2014) |
|-----------|--|--|
| 20 01 29* | Detergents containing dangerous substances | Dangerous                                  |

#### Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

#### Regulations related to waste management:

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

### SECTION 14: TRANSPORT INFORMATION

Transport of separate uni packing-not governed by ADR regulation. Packing method: Up to 1 l - located on trays covered with a heat-shrinkable film. Maximum content and gross weight per pack - 12L and 20 kg. ADR applies to the product in other packages.

#### Transport of dangerous goods by land:

With regard to ADR 2015 and RID 2015:

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**SECTION 14: TRANSPORT INFORMATION (continue)**



- 14.1 UN number:** UN1903  
**14.2 UN proper shipping name:** DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Sodium hypochlorite)  
**14.3 Transport hazard class(es):** 8  
Labels: 8  
**14.4 Packing group:** II  
**14.5 Dangerous for the environment:** Yes  
**14.6 Special precautions for user**  
Special regulations: 274  
Tunnel restriction code: E  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L  
**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by sea:**

With regard to IMDG 37-14:



- 14.1 UN number:** UN1903  
**14.2 UN proper shipping name:** DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Sodium hypochlorite)  
**14.3 Transport hazard class(es):** 8  
Labels: 8  
**14.4 Packing group:** II  
**14.5 Dangerous for the environment:** Yes  
**14.6 Special precautions for user**  
Special regulations: 274, 944  
EmS Codes: F-A, S-B  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L  
**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2015:



- 14.1 UN number:** UN1903  
**14.2 UN proper shipping name:** DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Sodium hypochlorite)  
**14.3 Transport hazard class(es):** 8  
Labels: 8  
**14.4 Packing group:** II  
**14.5 Dangerous for the environment:** Yes  
**14.6 Special precautions for user**  
Physico-Chemical properties: see section 9  
**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Sodium hypochlorite (Product-type 1, 2, 3, 4, 5, 11, 12)

**SUNIK STRONG - Concentrated liquid detergent and disinfectant - lemon, forest,ocean**  
**SUNIK STRONG**

**SECTION 15: REGULATORY INFORMATION (continue)**

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):**

Non-applicable

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION**

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulation (EC) N° 2015/830)

**Modifications related to the previous security card which concerns the ways of managing risks. :**

Non-applicable

**Texts of the legislative phrases mentioned in section 2:**

H314: Causes severe skin burns and eye damage

H318: Causes serious eye damage

H400: Very toxic to aquatic life

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**CLP Regulation (EC) n° 1272/2008:**

Acute Tox. 4: H302 - Harmful if swallowed

Aquatic Acute 1: H400 - Very toxic to aquatic life

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects

Eye Dam. 1: H318 - Causes serious eye damage

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

Skin Irrit. 2: H315 - Causes skin irritation

**Classification procedure:**

Skin Corr. 1A: Calculation method

Eye Dam. 1: Calculation method

Aquatic Acute 1: Calculation method

**Advice related to training:**

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol–water partition coefficient

Koc: Partition coefficient of organic carbon

- CONTINUED ON NEXT PAGE -

**SUNIK STRONG - Concentrated liquid detergent and disinfectant - lemon, forest,ocean**  
**SUNIK STRONG**

**SECTION 16: OTHER INFORMATION (continue)**

**Other information:**

classification - method of calculation based on the contents of the individual substances in the formulation and concentration limits.

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -