

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Review date: 26/03/2018 Supersedes: 22/03/2016 Version: 6.3

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

1.1. Product identifier

Product name : Lunosept Concentrate

Product code : 582
Type of product : Detergent

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Bleaching agent

### 1.2.2. Uses advised against

No additional information available

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

### Manufacturer

Christeyns NV Afrikalaan 182 9000 GENT - Belgium T +32 9 223 38 71

info@christeyns.com - http://www.christeyns.com/

### 1.4. Emergency telephone number

| Country        | Official advisory body  | Address                         | Emergency number | Comment |
|----------------|---|---------------------------------|------------------|---------|
| United Kingdom | Guy's & St Thomas' Poisons<br>Unit<br>Medical Toxicology Unit, Guy's & St<br>Thomas' Hospital Trust | Avonley Road<br>SE14 5ER London | 0870 243 2241    |         |

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

 Met. Corr. 1
 H290

 Skin Corr. 1B
 H314

 Aquatic Acute 1
 H400

Full text of hazard classes and H-statements : see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :





GHS05

5 GHS09

CLP Signal word : Danger

Hazardous ingredients : Sodium hypochlorite

Hazard statements (CLP) : H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

H400 - Very toxic to aquatic life.

Precautionary statements (CLP) : P260 - Do not breathe mist, spray, vapours.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

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.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

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EUH-statements : EUH031 - Contact with acids liberates toxic gas.

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                | Product identifier   | %       | Classification according to<br>Regulation (EC) No.<br>1272/2008 [CLP]     |
|---------------------|--|---------|---|
| Sodium hypochlorite | (CAS-no) 7681-52-9<br>(Einecs nr) 231-668-3<br>(EG annex nr) 017-011-00-1<br>(REACH-no) 01-2119488154-34 | 10 - 15 | Met. Corr. 1, H290<br>Skin Corr. 1B, H314<br>Aquatic Acute 1, H400 (M=10) |

### Specific concentration limits:

| Name                | Product identifier   | Specific concentration limits |
|---------------------|--|-------------------------------|
| Sodium hypochlorite | (CAS-no) 7681-52-9<br>(Einecs nr) 231-668-3<br>(EG annex nr) 017-011-00-1<br>(REACH-no) 01-2119488154-34 | (C >= 5) EUH031               |

Full text of H-statements: see section 16

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

General advice : In case of doubt or persistent symptoms, consult always a physician.

Inhalation : Take victim to fresh air, in a quiet place and if necessary take medical advice.

Skin contact : Immediately remove contaminated clothing or footwear. Wash immediately with plenty of water.

In case of faintness or symptoms of skin irritation appear, take medical advice.

Eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes

minimum). Seek medical attention immediately.

Ingestion : Rinse mouth out with water. Do not induce vomiting. Immediately consult a doctor/medical

service.

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

Acute effects inhalation : Inhalation may cause irritation (cough, short breathing, difficulty in breathing).

Acute effects skin : Burns upon contact with the skin.

Acute effects eyes : Corrosive to eyes.

Acute effects oral route : Burns of the upper digestive and respiratory tracts.

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

No additional information available

### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : All extinguishing agents can be used.

Unsuitable extinguishing media : Not applicable.

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

Hazardous decomposition products in case of : Toxic fumes may be released. Corrosive vapours. Chlorine. Hydrogen chloride.

fire

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

Other information : Control the vapours with a water spray.

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### **SECTION 6: Accidental release measures**

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

### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

6.1.2. For emergency responders

Protective equipment : Use self-contained breathing apparatus and chemically protective clothing.

### 6.2. Environmental precautions

Do not contaminate ground and surface water.

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

Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into

container for disposal.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse.

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

Technical measures : Keep in a cool, well-ventilated place away from heat.

Incompatible products : Oxidizing agent. Strong acids. Strong bases.

Material(s) to avoid : Never mix with other materials.

Packaging materials : Store always product in container of same material as original container.

## 7.3. Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

| Sodium hypochlorite (7681-52-9)          |                           |  |
|--|---------------------------|--|
| DNEL/DMEL (Workers)                      |                           |  |
| Acute - systemic effects, inhalation     | 3,1 mg/m³                 |  |
| Acute - local effects, inhalation        | 3,1 mg/m³                 |  |
| Long-term - systemic effects, inhalation | 1,55 mg/m³                |  |
| Long-term - local effects, inhalation    | 1,55 mg/m³                |  |
| DNEL/DMEL (General population)           |                           |  |
| Acute - systemic effects, inhalation     | 3,1                       |  |
| Acute - local effects, inhalation        | 3,1 mg/m³                 |  |
| Long-term - systemic effects,oral        | 0,26 mg/kg bodyweight/day |  |
| Long-term - systemic effects, inhalation | 1,55 mg/m³                |  |
| Long-term - local effects, inhalation    | 1,55 mg/m³                |  |
| PNEC (Water)                             |                           |  |
| PNEC aqua (freshwater)                   | 0,00021 mg/l              |  |
| PNEC aqua (marine water)                 | 0,000042 mg/l             |  |
| PNEC aqua (intermittent, freshwater)     | 0,00026 mg/l              |  |
| PNEC (STP)                               |                           |  |
| PNEC sewage treatment plant              | 0,03 mg/l                 |  |

### 8.2. Exposure controls

### Hand protection:

Chemical resistant PVC gloves (to European standard EN 374 or equivalent)

### Eye protection:

Safety glasses with side-shields (EN 166)

### Protective equipment:

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Wear suitable protective clothing minimum (EN 13034) Type 6 equipment

### Respiratory protection:

Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. (Type B)

: No data available

### **SECTION 9: Physical and chemical properties**

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

Physical state : Liquid Physical state/form : Liquid. Colour : pale. Yellow. Odour : chlorine.

Odour threshold : No data available

: 10,8 (1%)

Relative evaporation rate (butylacetate=1) Melting point/range : No data available : No data available Freezing point Boiling point/Boiling range : >= 100 °C Flash point : Not applicable : No data available Autoignition temperature : No data available Decomposition temperature Flammability (solid, gas) : No data available Vapour pressure : 1.7 kPa (20°C) Relative vapour density at 20 °C : No data available Relative density : No data available : 1220 ± 25 kg/m3 Density

Solubility : Water: completely soluble

Log Pow : No data available Viscosity, kinematic No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available : No data available Explosive limits

### Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### Reactivity 10.1.

May be corrosive to metals.

### **Chemical stability**

Unstable on exposure to heat.

#### 10.3. Possibility of hazardous reactions

Reacts with (some) metals.

#### 10.4. Conditions to avoid

All heat sources, including direct sunlight. humid air. Contact with acids liberates toxic gas (chlorine).

#### 10.5. Incompatible materials

Never mix with other materials. Strong reducing agents. Strong acids. Strong bases. Metals. Organic materials.

#### 10.6. Hazardous decomposition products

By contact with acids poisonous chloric gases can be released under heat development.

### **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

: Not classified Acute toxicity (oral) Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

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| Sodium hypochlorite (7681-52-9)   |   |  |
|-----------------------------------|---|--|
| LD50 oral rat                     | > 2000 mg/kg  |  |
| LD50 dermal rabbit                | > 2000 mg/kg  |  |
| Skin corrosion/irritation         | : Causes severe skin burns and eye damage.<br>pH: 10,8 (1%) |  |
| Serious eye damage/irritation     | : Serious eye damage, category 1, implicit pH: 10,8 (1%)    |  |
| Respiratory or skin sensitisation | : Not classified  |  |
| Germ cell mutagenicity            | : Not classified  |  |
| Carcinogenicity                   | : Not classified  |  |
| Reproductive toxicity             | : Not classified  |  |
| STOT-single exposure              | : Not classified  |  |
| STOT-repeated exposure            | : Not classified  |  |
| Aspiration hazard                 | : Not classified  |  |

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Not classified.

| Sodium hypochlorite (7681-52-9) |   |
|---------------------------------|---|
| LC50 fish 1                     | 0,06 mg/l (fresh water)                           |
| LC50 fish 2                     | 0,032 mg/l (marine water)                         |
| EC50 Daphnia 1                  | 0,141 mg/l (Daphnia magna - fresh water)          |
| EC50 other aquatic organisms 1  | 0,026 mg/l (Crassostrea virginica - marine water) |

### 12.2. Persistence and degradability

| Sodium hypochlorite (7681-52-9) |   |  |
|---------------------------------|---|--|
| Persistence and degradability   | Strong oxidizing agent. It will react with organic substances present in soil and sediments and degrades rapidly to chloride. Sodium hypochlorite is substantially removed in biological treatment processes. |  |

### 12.3. Bioaccumulative potential

| Sodium hypochlorite (7681-52-9) |                           |
|---------------------------------|---------------------------|
| Bioaccumulative potential       | Bioaccumulation unlikely. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

| Lunosept C   | Concentrate   |
|--------------|---|
| This substar | nce/mixture does not meet the PBT criteria of REACH regulation, annex XIII  |
| This substar | nce/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste / unused products : Collect all waste in suitable and labelled containers and dispose according to local legislation.

European List of Waste (LoW) code : 20 01 29\* - detergents containing dangerous substances

### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR                           | IMDG                  | IATA                  |
|-------------------------------|-----------------------|-----------------------|
| 14.1. UN number               |                       |                       |
| 1791                          | 1791                  | 1791                  |
| 14.2. UN proper shipping name |                       |                       |
| HYPOCHLORITE SOLUTION         | HYPOCHLORITE SOLUTION | Hypochlorite solution |

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| ADR  | IMDG   | IATA   |
|--|--|--|
| Transport document description                                       |  |  |
| UN 1791 HYPOCHLORITE SOLUTION, 8, II, (E), ENVIRONMENTALLY HAZARDOUS | UN 1791 HYPOCHLORITE SOLUTION, 8,<br>MARINE POLLUTANT/ENVIRONMENTALLY<br>HAZARDOUS | UN 1791 Hypochlorite solution, 8,<br>ENVIRONMENTALLY HAZARDOUS |
| 14.3. Transport hazard class(es)                                     |  |  |
| 8  | 8  | 8  |
| ¥2   | **************************************   | ¥2   |
| 14.4. Packing group  |  |  |
| l II   | Not applicable   | Not applicable   |
| 14.5. Environmental hazards  |  |  |
| Dangerous for the environment : Yes                                  | Dangerous for the environment : Yes Marine pollutant : Yes                         | Dangerous for the environment : Yes                            |
| No supplementary information available                               |  |  |

### 14.6. Special precautions for user

### - Overland transport

Classification code (ADR) : C9 Special provisions (ADR) : 521 Limited quantities (ADR) : 11 Vehicle for tank carriage : AT Transport category (ADR) : 2 Hazard identification number (Kemler No.) : 80 Tunnel code : E EAC code : 2X

### - Transport by sea

No data available

### - Air transport

No data available

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

Not applicable

### **SECTION 15: Regulatory information**

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

### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Detergent Regulation : Labelling of contents:

| Component                       | %     |
|---------------------------------|-------|
| Chlorine-based bleaching agents | 5-15% |

### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

Indication of changes:

| Section | Changed item | Change   | Comments |
|---------|--------------|----------|----------|
| 5       |              | Modified |          |
| 6       |              | Modified |          |

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| 7    |                             | Modified |
|------|-----------------------------|----------|
| 10   |                             | Added    |
| 14.4 | Packing group (IATA)        | Modified |
| 14.4 | Packing group (IMDG)        | Modified |
| 14.4 | Packing group (ADR)         | Modified |
| 14.6 | Packing instructions (IMDG) | Modified |
| 15   |                             | Modified |
| 16   |                             | Modified |

### Abbreviations and acronyms:

| , abbiovidationio dine | adonymo.  |
|------------------------|---|
| ADR                    | European Agreement concerning the International Carriage of Dangerous Goods by Road               |
| ATE                    | Acute Toxicity Estimate   |
| CLP                    | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| DMEL                   | Derived Minimal Effect level  |
| DNEL                   | Derived-No Effect Level   |
| EC50                   | Median effective concentration  |
| ErC50 (algae)          | ErC50 (algae)   |
| IATA                   | International Air Transport Association   |
| IMDG                   | International Maritime Dangerous Goods  |
| LC50                   | Median lethal concentration   |
| LD50                   | Median lethal dose  |
| LOAEL                  | Lowest Observed Adverse Effect Level  |
| NOAEC                  | No-Observed Adverse Effect Concentration  |
| NOAEL                  | No-Observed Adverse Effect Level  |
| NOEC                   | No-Observed Effect Concentration  |
| OECD                   | Organisation for Economic Co-operation and Development  |
| PBT                    | Persistent Bioaccumulative Toxic  |
| PNEC                   | Predicted No-Effect Concentration   |
| REACH                  | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| SDS                    | Safety Data Sheet   |
| STP                    | Sewage treatment plant  |
| vPvB                   | Very Persistent and Very Bioaccumulative  |
|                        |   |

### Other information

It is recommended to pass the information of this safety data sheet in an appropriate form to the users. Such information is actually the best of our knowledge and believes accurate as reliable. This information relates to the specific material designated and may not be valid in combination with other products.

This safety data sheet is in compliance with 1907/2006/EEC. It is user's liabilities to take all necessary measures to meet local required laws and regulations. The producer is not responsable for any damage and loss due to the use of information mentioned in this safety data sheet.

### Full text of H- and EUH-statements:

| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |  |
|-----------------|---|--|
| Met. Corr. 1    | Corrosive to metals, Category 1                                 |  |
| Skin Corr. 1B   | Skin corrosion/irritation, Category 1B                          |  |
| H290            | May be corrosive to metals.                                     |  |
| H314            | Causes severe skin burns and eye damage.                        |  |
| H400            | Very toxic to aquatic life.                                     |  |
| EUH031          | Contact with acids liberates toxic gas                          |  |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Met. Corr. 1    | H290 | Calculation method |
|-----------------|------|--------------------|
| Skin Corr. 1B   | H314 | Calculation method |
| Aquatic Acute 1 | H400 | Calculation method |

### SDS Christeyns (EC 2015/830)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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