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

**1.1** Product identifier: Sodium chloride  
CAS: 7647-14-5  
EC: 231-598-3  
Index: Non-applicable  
REACH: 01-2119485491-33-XXXX

**1.2** Relevant identified uses of the substance or mixture and uses advised against:  
Relevant uses:  
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:  
Biowest SAS  
Rue de la Caille  
49340 Nuaillé - France  
Phone.: 00 33 2 41 46 42 42 -  
Fax: 00 33 2 41 46 40 50  
biowest@biowest.net  
www.biowest.net

**1.4** Emergency telephone number:  
ORFILA: 01 45 42 59 59

---

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1** Classification of the substance or mixture:  
CLP Regulation (EC) nº 1272/2008:  
The product is not classified as dangerous according to CLP Regulation (EC) nº 1272/2008.

**2.2** Label elements:  
CLP Regulation (EC) nº 1272/2008:  
See sections 11 and 12.

**2.3** Other hazards:  
Non-applicable

---

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

**3.1** Substance:  
Chemical description:  
Components:  
In accordance with Annex II of Regulation (EC) nº1907/2006 (point 3), the product contains:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Chemical name/Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 7647-14-5</td>
<td>Sodium chloride</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
| EC: 231-598-3    |                              | 100 %          
| Index: Non-applicable | REACH: 01-2119485491-33-XXXX |              |

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

**3.2** Mixture:  
Non-applicable

---

**SECTION 4: FIRST AID MEASURES**

**4.1** Description of first aid measures:  
Consult a doctor in case of discomfort with this Safety data Sheet.  
By inhalation:  
In case of symptoms, move the person affected into fresh air.  
By skin contact:  

- CONTINUED ON NEXT PAGE -
SECTION 4: FIRST AID MEASURES (continue)

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet

By eye contact:
Rinse with water until the product has been eliminated. In case of problems, consult a doctor with the SDS of this product.

By ingestion/aspiration:
In case of consumption in large quantities, it is recommended to seek medical assistance.

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:
Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:
Product is non-flammable, low risk of fire by the inflammability characteristics of the product in normal conditions of storage, manipulation and use. In the case of the existence of sustained combustion as a result of improper manipulation, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

5.2 Special hazards arising from the substance or mixture:
Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

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:
Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

6.2 Environmental precautions:
This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and material for containment and cleaning up:
It is recommended:
Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

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
SECTION 7: HANDLING AND STORAGE (continue)

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

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
It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2

7.2 Conditions for safe storage, including any incompatibilities:
A.- Technical measures for storage
Store in a cool, dry, well-ventilated location

B.- General conditions for storage
Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):
Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:
Substances whose occupational exposure limits have to be monitored in the work environment

Nuisance dust: Inhalable dust 10 mg/m³ // Respirable dust 4 mg/m³

DNEL (Workers):

<table>
<thead>
<tr>
<th>Identification</th>
<th>Systemic</th>
<th>Local</th>
<th>Systemic</th>
<th>Local</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>Oral</td>
<td>Non-applicable</td>
<td>Non-applicable</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>CAS: 7647-14-5</td>
<td>Dermal</td>
<td>295,52 mg/kg</td>
<td>Non-applicable</td>
<td>295,52 mg/kg</td>
</tr>
<tr>
<td>EC: 231-598-3</td>
<td>Inhalation</td>
<td>2068,62 mg/m³</td>
<td>Non-applicable</td>
<td>2068,62 mg/m³</td>
</tr>
</tbody>
</table>

DNEL (General population):

<table>
<thead>
<tr>
<th>Identification</th>
<th>Systemic</th>
<th>Local</th>
<th>Systemic</th>
<th>Local</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>Oral</td>
<td>126,65 mg/kg</td>
<td>Non-applicable</td>
<td>126,65 mg/kg</td>
</tr>
<tr>
<td>CAS: 7647-14-5</td>
<td>Dermal</td>
<td>126,65 mg/kg</td>
<td>Non-applicable</td>
<td>126,65 mg/kg</td>
</tr>
<tr>
<td>EC: 231-598-3</td>
<td>Inhalation</td>
<td>443,28 mg/m³</td>
<td>Non-applicable</td>
<td>443,28 mg/m³</td>
</tr>
</tbody>
</table>

PNEC:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Systemic</th>
<th>Local</th>
<th>Systemic</th>
<th>Local</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>STP</td>
<td>500 mg/L</td>
<td>Fresh water</td>
<td>5 mg/L</td>
</tr>
<tr>
<td>CAS: 7647-14-5</td>
<td>Soil</td>
<td>4,86 mg/kg</td>
<td>Marine water</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>EC: 231-598-3</td>
<td>Intermittent</td>
<td>Non-applicable</td>
<td>Sediment (Fresh water)</td>
<td>Non-applicable</td>
</tr>
<tr>
<td></td>
<td>Oral</td>
<td>Non-applicable</td>
<td>Sediment (Marine water)</td>
<td>Non-applicable</td>
</tr>
</tbody>
</table>

8.2 Exposure controls:
A.- General security and hygiene measures in the work place

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
SECTION 8: EXPOSURE CONTROLS/PERSOAL PROTECTION (continue)

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.

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 ºC: 0 kg/m³ (0 g/L)
Average carbon number: Non-applicable
Average molecular weight: Non-applicable

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 ºC: Solid
Appearance: Not available
Color: Not available
Odor: Not available

Vatility:
Boiling point at atmospheric pressure: Non-applicable *
Vapour pressure at 20 ºC: Non-applicable *
Vapour pressure at 50 ºC: Non-applicable *
Evaporation rate at 20 ºC: Non-applicable *

Product description:
Density at 20 ºC: 2170 kg/m³
Relative density at 20 ºC: 2,17
Dynamic viscosity at 20 ºC: Non-applicable *
Kinematic viscosity at 20 ºC: Non-applicable *
Kinematic viscosity at 40 ºC: Non-applicable *
Concentration: Non-applicable *
pH: Non-applicable *
Vapour density at 20 ºC: Non-applicable *
Partition coefficient n-octanol/water 20 ºC: Non-applicable *
Solubility in water at 20 ºC: Non-applicable *
Solubility properties: Non-applicable *
Decomposition temperature: Non-applicable *
Melting point/freezing point: 801 ºC

Flammability:
*Not relevant due to the nature of the product, not providing information property of its hazards.
**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>Non Flammable (&gt;60 °C)</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>Non-applicable *</td>
</tr>
</tbody>
</table>

**9.2 Other information:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface tension at 20 °C</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td>Refraction index</td>
<td>Non-applicable *</td>
</tr>
</tbody>
</table>

*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:

<table>
<thead>
<tr>
<th>Condition</th>
<th>Suitable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shock and friction</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Contact with air</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Increase in temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Sunlight</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Humidity</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**10.5 Incompatible materials:**

<table>
<thead>
<tr>
<th>Category</th>
<th>Suitable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acids</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Water</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Combustive materials</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Combustible materials</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Others</td>
<td>Avoid alkalies or strong bases</td>
</tr>
</tbody>
</table>

**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 (CO2), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

LD50 oral > 2000 mg/kg (rat)

**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:
   - Acute toxicity: Based on available data, the classification criteria are not met
   - Corrosivity/Irritability: Based on available data, the classification criteria are not met

B.- Inhalation:
   - Acute toxicity: Based on available data, the classification criteria are not met
   - Corrosivity/Irritability: Based on available data, the classification criteria are not met

C.- Contact with the skin and the eyes:
   - Contact with the skin: Based on available data, the classification criteria are not met
   - Contact with the eyes: Based on available data, the classification criteria are not met

D.- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
   - Carcinogenicity: Based on available data, the classification criteria are not met
   - Mutagenicity: Based on available data, the classification criteria are not met
   - Reproductive toxicity: Based on available data, the classification criteria are not met

E.- Sensitizing effects:
SECTION 11: TOXICOLOGICAL INFORMATION (continue)

- Respiratory: Based on available data, the classification criteria are not met
- Cutaneous: Based on available data, the classification criteria are not met

F- Specific target organ toxicity (STOT)-time exposure:
   Based on available data, the classification criteria are not met

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
   - Skin: Based on available data, the classification criteria are not met

H- Aspiration hazard:
   Based on available data, the classification criteria are not met

Other information:
Non-applicable

Specific toxicity information on the substances:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Acute toxicity</th>
<th>Genus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS: 7647-14-5</td>
<td>LD50 oral 3000 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td>EC: 231-598-3</td>
<td>LD50 dermal Non-applicable</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50 inhalation Non-applicable</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Acute toxicity</th>
<th>Specie</th>
<th>Genus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS: 7647-14-5</td>
<td>LC50 9675 mg/L (96 h)</td>
<td>Lepomis macrochirus</td>
<td>Fish</td>
</tr>
<tr>
<td>EC: 231-598-3</td>
<td>EC50 3412 mg/L (24 h)</td>
<td>Daphnia magna</td>
<td>Crustacean</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability:
Not available

12.3 Bioaccumulative potential:
Not available

12.4 Mobility in soil:
Not available

12.5 Results of PBT and vPvB assessment:
Non-applicable

12.6 Other adverse effects:
Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Waste class (Regulation (EU) No 1357/2014)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>It is not possible to assign a specific code, as it depends on the intended use by the user</td>
<td>Non dangerous</td>
</tr>
</tbody>
</table>

Type of waste (Regulation (EU) No 1357/2014):
Non-applicable

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:
### SECTION 13: DISPOSAL CONSIDERATIONS (continue)

In accordance with Annex II of Regulation (EC) no 1907/2006 (REACH) the community or state provisions related to waste management are stated.


### SECTION 14: TRANSPORT INFORMATION

**Transport of dangerous goods by land:**

With regard to ADR 2015 and RID 2015:

| 14.1 UN number: | Non-applicable |
| 14.2 UN proper shipping name: | Non-applicable |
| 14.3 Transport hazard class(es): | Non-applicable |
| Labels: | Non-applicable |
| 14.4 Packing group: | Non-applicable |
| 14.5 Dangerous for the environment: | No |
| 14.6 Special precautions for user | |
| Special regulations: | Non-applicable |
| Tunnel restriction code: | Non-applicable |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | Non-applicable |
| 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: | Non-applicable |
| 14.2 UN proper shipping name: | Non-applicable |
| 14.3 Transport hazard class(es): | Non-applicable |
| Labels: | Non-applicable |
| 14.4 Packing group: | Non-applicable |
| 14.5 Dangerous for the environment: | No |
| 14.6 Special precautions for user | |
| Special regulations: | Non-applicable |
| EmS Codes: | |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | Non-applicable |
| 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: | Non-applicable |
| 14.2 UN proper shipping name: | Non-applicable |
| 14.3 Transport hazard class(es): | Non-applicable |
| Labels: | Non-applicable |
| 14.4 Packing group: | Non-applicable |
| 14.5 Dangerous for the environment: | No |
| 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: Non-applicable
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) Nº 1907/2006 (Regulation (EU) Nº 453/2010, Regulation (EC) Nº 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 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) nº 1272/2008:
Non-applicable

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
LC50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol–water partition coefficient
Koc: Partition coefficient of organic carbon