SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier

Product code: SO155
Product Name: SODIUM CHLORIDE, GRANULAR, USP

Other means of identification

Synonyms:
Salt; Sea Salt
Cloruro de sodio (Spanish)
Sal (Spanish)
Chlorure de sodium (French)
Sel (French)

CAS #:
7647-14-5
RTECS #
VZ4725000
CI#:
Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Food preservative; in mineral waters; in soap manufacturing; home water softeners; highway deicing; regeneration of ion-exchange resins; in photography; in the production of chemicals; in ceramic glazes; metallurgy; curing hides; food seasoning; herbicide; fire extinguishing; in mouthwash.

Uses advised against
No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At:
https://www.spectrumchemical.com

Emergency telephone number
Chemetrec 1-800-424-9300

Contact Person:
Tom Tyner (USA - West Coast)
Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Not classified
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Chloride</td>
<td>7647-14-5</td>
<td>100</td>
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4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms
- May cause eye/skin irritation
- Thirst
- Dehydration
- May affect the cardiovascular system
- Central nervous system effects
- May cause abdominal pain, nausea, vomiting, diarrhea

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media: No information available.

Product code: SO155 Product name: SODIUM CHLORIDE, GRANULAR, USP
Specific hazards arising from the chemical

Hazardous combustion products  No information available.
Specific hazards  No information available.

Special Protective Actions for Firefighters

Specific Methods:  No information available
Special Protective Equipment for Firefighters:  As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:  Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation.
Environmental precautions  Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment  Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.
Methods for cleaning up  Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:  Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.
Safe Handling Advice:  Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Incompatible Materials:  Strong oxidizing agents
Strong acids
Metals

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Product code:  SO155  Product name:  SODIUM CHLORIDE, GRANULAR, USP
National occupational exposure limits

United States

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<th>Component</th>
<th>CAS No</th>
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<th>ACGIH</th>
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Canada

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Australia and Mexico

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<td>7647-14-5</td>
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<td>None</td>
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</tbody>
</table>

Appropriate engineering controls

Engineering measures to reduce exposure:
Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Safety glasses with side-shields.
Skin and body protection: Long sleeved clothing, Chemical resistant apron, Gloves
Respiratory protection: No personal respiratory protective equipment normally required. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

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<tbody>
<tr>
<td>Odor: No information available.</td>
<td>Taste: Saline.</td>
<td>Formula: NaCl</td>
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</table>

Molecular/Formula weight (g/mole):

Product code: SO155  
Product name: SODIUM CHLORIDE, GRANULAR, USP
10. STABILITY AND REACTIVITY

Reactivity
Reactive with oxidizing agents
Reactive with metals
Reactive with acids
Reacts with most nonnoble metals such as iron or steel, building materials (such as cement)
Sodium chloride is rapidly attacked by bromine trifluoride. Violent reaction with lithium.
Electrolysis of sodium chloride in presence of nitrogenous compounds to produce chlorine may lead to formation of explosive nitrogen trichloride. Potentially explosive reaction with dichloromaleic anhydride + urea.

Chemical stability
Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur


Incompatible Materials: Strong oxidizing agents
Strong acids
Metals

Hazardous decomposition products: No information available.

Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Toxicity

Component Information

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<tr>
<th>Sodium Chloride</th>
<th>CAS No</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>7647-14-5</td>
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</tbody>
</table>

LD50/oral/rat = 3 g/kg Oral LD50 Rat  
LD50/oral/mouse = 4 g/kg  
LD50/dermal/rabbit = > 10 g/kg Dermal LD50  
LD50/dermal/rat = No information available  
LC50/inhalation/rat = >42 g/m³ Inhalation LC50 Rat 1 h  
LC50/inhalation/mouse = No information available  
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =  
Value - Acute Toxicity = 3000 mg/kg

LD50/oral/mouse =  
Value - Acute Tox = 4000 mg/kg

LD50/dermal/rabbit  
Value - Acute Toxicity = > 10000 mg/kg

LD50/dermal/rat  
VALUE - Acute Tox = No information available

LC50/inhalation/rat  
VALUE-Vapor = No information available  
VALUE-Gas = No information available  
VALUE-Dust/Mist = 42000 mg/m³

LC50/inhalation/mouse  
VALUE-Vapor = No information available  
VALUE - Gas = No information available  
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation. Slight to moderate transient eye irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion Ingestion of large quantities can irritate the stomach (as in overuse of salt tablets). May cause abdominal pain, nausea, vomiting, diarrhea. May cause dehydration. May cause thirst. May affect the cardiovascular system (hypotension or
hypertension, tachycardia). May affect metabolism (changes in sodium level). May increase sodium levels. May affect behavior/central nervous system (muscle spasticity/contraction, somnolence, headache, irritability, restlessness, dizziness, convulsions/seizures, coma).

**Aspiration hazard**

No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity**

No information available.

**Sensitization:**

No information available.

**Mutagenic Effects:**

May affect genetic material
Mutagenic effects in mammalian somatic cells
Mutations in microorganisms

**Carcinogenic effects:**

No information available.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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</table>

**ACGIH (American Conference of Governmental Industrial Hygienists)**

**IARC (International Agency for Research on Cancer)**

**NTP (National Toxicology Program)**

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

**Reproductive toxicity**

No data is available

**Reproductive Effects:**

No information available

**Developmental Effects:**

No information available

**Teratogenic Effects:**

No information available

**Specific Target Organ Toxicity**

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Target Organs:**

No information available.

---

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:**

Aquatic environment.

*Sodium Chloride - 7647-14-5 Fish*

5560 - 6080 mg/L LC50 Lepomis macrochirus 96 h flow-through 1 12946 mg/L LC50 Lepomis macrochirus 96 h static 1 6020 - 7070 mg/L LC50 Pimephales promelas 96 h static 1 7050 mg/L LC50 Pimephales promelas 96 h semi-static 1 6420 - 6700 mg/L LC50 Pimephales promelas 96 h static 1 4747 - 7824 mg/L LC50 Oncorhynchus mykiss 96 h flow-through 1

**Crustacea**

1000 mg/L EC50 Daphnia magna 48 h 340.7 - 469.2 mg/L EC50 Daphnia magna

**Product code:** SO155  **Product name:** SODIUM CHLORIDE, GRANULAR, USP
48 h

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soil No information available
Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

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<tbody>
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<td>7647-14-5</td>
<td>None</td>
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</table>

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Class: No information available
Packing Group: No information available
Emergency Response Guide: No information available
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: No Information available
Symbol(s): No information available
Description: No information available

TDG (Canada)

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No Information available
Description: No information available

ADR

UN Number: Not regulated
Proper Shipping Name: No information available
Transport hazard class(es): No information available
Packing group: No information available
Subsidiary Risk: No information available

IMDG

Product code: SO155  Product name: SODIUM CHLORIDE, GRANULAR, USP
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No information available

RID
UN Number Not Regulated
Proper Shipping Name: No information available
Transport hazard class(es) No information available
Subsidiary Risk: No information available
Packing group No information available

ICAO (air)
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class No information available
Subsidiary Risk: No information available
Packing group No information available

IATA
UN Number Not Regulated
Proper Shipping Name: No information available
Transport hazard class(es) No information available
Subsidiary Risk: No information available
Packing group No information available
Precautionary Statements - No information available
Response
Special Provisions No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>China IECSC</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<td>Sodium Chloride</td>
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<td>Present KE-31387</td>
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U.S. Regulations

Sodium Chloride
FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 182.70, 21 CFR 182.90


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Product code: SO155 Product name: SODIUM CHLORIDE, GRANULAR, USP
### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>Carcinogen</th>
<th>Developmental Toxicity Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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### CERCLA/SARA

<table>
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<tr>
<th>Component</th>
<th>CAS No</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPOs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<td>Sodium Chloride</td>
<td>7647-14-5</td>
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### U.S. TSCA

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<tr>
<th>Component</th>
<th>CAS No</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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### Canada

**WHIMIS 2015 - GHS Classifications**

**WHIMIS 2015 Hazard Classification Information:**

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<th>Component</th>
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<td>Sodium Chloride</td>
<td>Not a dangerous product according to HPR classification criteria</td>
<td>This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR</td>
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### DSL/NDSL

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### EU Classification

**EU GHS - SV - CLP 1272/2008**

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**EU - CLP (1272/2008)**

**R-phrase(s)**

**Product code:** SO155  **Product name:** SODIUM CHLORIDE, GRANULAR, USP

Page 10 / 11
not determined (not applicable)

**S -phrase(s)**
none

<table>
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<th>Safety Phrases</th>
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The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**
Not dangerous

### 16. OTHER INFORMATION

**Preparation Date:** 2/24/2014  
**Revision date:** 7/23/2018  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet