# SAFETY DATA SHEET

**Preparation Date:** 2/24/2014 **Revision date** 7/23/2018 **Revision Number:** G3

## 1. IDENTIFICATION

**Product identifier**

**Product code:** S1248
**Product Name:** SODIUM CHLORIDE

**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** Chemtrec 1-800-424-9300
**Contact Person:** Tom Tyner (USA - West Coast)
**Contact Person:** 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**

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**
Not available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS No | Weight-% |
|---|---|---|
| Sodium Chloride | 7647-14-5 | 100 |

## 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.

**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

**Technical Measures/Storage Conditions:**
Hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

**Incompatible Materials:**
Strong oxidizing agents
Strong acids
Metals

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**National occupational exposure limits**

**United States**

| Component | CAS No | OSHA | NIOSH | ACGIH | AIHA WEEL |
|---|---|---|---|---|---|
| Sodium Chloride | 7647-14-5 | None | None | None | None |

**Canada**

| Component | CAS No | Canada - Alberta | Canada - British Columbia | Canada - Ontario | Canada - Quebec |
|---|---|---|---|---|---|
| Sodium Chloride | 7647-14-5 | None | None | None | None |

**Australia and Mexico**

| Component | CAS No | Australia | Mexico |
|---|---|---|---|
| Sodium Chloride | 7647-14-5 | None | None |

**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

**Physical state:**
Solid

**Appearance:**
Granular. Crystals. Crystalline. Crystalline powder.

**Color:**
White.

**Odor:**
No information available.

**Taste**
Saline.

**Formula**
NaCl

**Molecular/Formula weight (g/mole):**
58.44

**Flammability (solid, gas)**
no data available

**Flashpoint (°C/°F):**
No information available

**Flash Point Tested according to:**
Not available

**Autoignition Temperature (°C/°F):**
No information available

**Lower Explosion Limit (%):**
No information available

**Upper Explosion Limit (%):**
No information available

**Melting point/range(°C/°F):**
801°C/1473 °F

**Decomposition temperature(°C/°F):**
No information available

**Boiling point/range(°C/°F):**
1413 °C/2575.4 °F

**Bulk density:**
No information available

**Density (g/cm3):**
No information available

**Specific gravity:**
2.165

**pH**
No information available

**Vapor pressure @ 20°C (kPa):**
No information available

**Evaporation rate:**
No information available

**Vapor density:**
No information available

**VOC content (g/L):**
No information available

**Odor threshold (ppm):**
No information available

**Partition coefficient (n-octanol/water):**
No information available

**Viscosity:**
No information available

**Miscibility:**
No information available

**Solubility:**
Freely soluble in water
Soluble in Glycerol
Very slightly soluble in Ethanol
Insoluble in Hydrochloric acid

## 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

**Conditions to avoid:** Heat. Ignition sources. Exposure to moisture. Exposure to moist air. Incompatible materials.

**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**

| Sodium Chloride | |
|---|---|
| CAS No | 7647-14-5 |

**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 LC50information =** 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 spasicity/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.

| Component | CAS No | IARC | ACGIH - Carcinogens | NTP | OSHA HCS - Carcinogens | Australia - Notifiable Carcinogenic Substances | Australia - Prohibited Carcinogenic Substances |
|---|---|---|---|---|---|---|---|
| Sodium Chloride | 7647-14-5 | Not listed | Not listed | Not listed | Not listed | Not listed | Not listed |

*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 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

| Component | CAS No | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|---|---|---|---|---|---|
| Sodium Chloride | 7647-14-5 | None | None | None | None |

## 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 Number** | 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**

| | |
|---|---|
| **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 - Response** | No information available |
| **Special Provisions** | No information available |

## 15. REGULATORY INFORMATION

### International Inventories

| Component | CAS No | U.S. TSCA | KOREA KECL | Philippines (PICCS) | Japan ENCS | China IECSC | Australia (AICS) | EINECS-No. |
|---|---|---|---|---|---|---|---|---|
| *Sodium Chloride* | 7647-14-5 | PresentACTIVE | Present KE-31387 | Present | Present (1)-236 | Present | Present | Present 231-598-3 |

### U.S. Regulations

*Sodium Chloride*

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

**FDA - 21 CFR - Total Food Additives - List Sourced from EAFUS** 100.155, 101.22, 101.61, 131.111, 131.112, 131.160, 131.162, 131.170, 133.106, 133.113, 133.121, 133.123, 133.124, 133.127, 133.129, 133.133, 133.136, 133.138, 133.141, 133.147, 133.150, 133.153, 133.155, 133.156, 133.162, 133.165, 133.169, 133.173, 133.179, 133.181, 133.182, 133.183, 133.184, 133.186, 133.187, 133.188, 133.189, 133.190, 133.195, 136.110, 137.180, 139.110, 139.150, 145.110, 145.130, 150.110, 155.120, 155.130, 155.190, 155.191, 155.194, 155.200, 155.201, 155.3, 156.145, 156.3, 158.170, 161.130, 161.145, 161.170, 161.173, 161.190, 163.111, 163.112, 163.113, 163.123, 163.130, 166.110, 168.130, 168.140, 168.160, 168.180, 169.115, 169.140, 169.150, 172.177, 172.430, 172.490, 172.840, 172.861, 182.1, 182.70, 182.90

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**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)

**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)

| Component | CAS No | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|---|---|---|---|---|---|
| Sodium Chloride | 7647-14-5 | Not Listed | Not Listed | Not Listed | Not Listed |

**CERCLA/SARA**

| Component | CAS No | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting de minimis |
|---|---|---|---|---|---|---|
| *Sodium Chloride* | 7647-14-5 | None | None | None | None | None |

**U.S. TSCA**

| Component | CAS No | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|---|---|---|---|
| Sodium Chloride | 7647-14-5 | Not Applicable | Not Applicable |

## Canada

**WHIMIS 2015 - GHS Classifications**

WHMIS 2015 Hazard Classification .
Information:

| Component | WHMIS 2015 Hazard Classification |
|---|---|
| Sodium Chloride<br>7647-14-5 ( 100 ) | Not a dangerous product according to HPR classification criteria |

**Canada Hazardous Products Regulation** 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

**DSL/NDSL**

| Component | CAS No | Canada (DSL) | Canada (NDSL) |
|---|---|---|---|
| Sodium Chloride | 7647-14-5 | Present | Not Listed |

| Component | CAS No | CEPA Schedule I - Toxic Substances |
|---|---|---|
| Sodium Chloride | 7647-14-5 | Not listed |
| Component | CAS No | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
| Sodium Chloride | 7647-14-5 | Not listed |

**EU Classification**

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

| Component | CAS No | EU GHS - SV - CLP (1272/2008) |
|---|---|---|
| Sodium Chloride | 7647-14-5 | |

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

**R-phrase(s)**
not determined (not applicable)

**S -phrase(s)**
none

| Component | CAS No | Classification | Concentration Limits: | Safety Phrases |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Sodium Chloride | 7647-14-5 | | No information | |

**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**