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## Material Safety Data Sheet

### Salt

#### Section 1 - Chemical Product Identification

MSDS Name: Sodium chloride

Synonyms: Common salt; Halite; Rock salt; Saline; Salt; Sea salt; Table salt.

#### Emergency Telephone Numbers:

800-255-3924 ChemTel. (United States)

+ 1 01 813-248-0585 (Outside the United States)

#### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	I EINECS/ELINCS I
7647-14-5	Sodium chloride	>99	I 231-598-3 I

#### Section 3 - Hazards Identification

##### EMERGENCY OVERVIEW

**Appearance:** colorless or white solid.

**Warning!** Causes eye irritation. May cause skin and respiratory tract irritation.

**Target Organs:** No data found.

##### Potential Health Effects

**Eye:** Causes eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** Ingestion of large amounts may cause gastrointestinal irritation. Ingestion of large amounts may cause nausea and vomiting, rigidity or convulsions. Continued exposure can produce coma, dehydration, and internal organ

**Inhalation:** May cause respiratory tract irritation.

**Chronic:** No information found.

#### Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid. Wash mouth out with water.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Notes to Physician:** None

## Section 5 - Fire Fighting Measures

**General Information:** Water runoff can cause environmental damage. Dike and collect water used to fight fire. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with **thermal decomposition products. Substance is noncombustible.**

**Extinguishing Media:** For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not available.

Explosion Limits, Lower: Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 1; Flammability: 0; Instability: 0

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

Clean up spills immediately, observing precautions in the Protective Equipment section.

Avoid generating dusty conditions. Provide ventilation.

## Section 7 Handling and Storage

**Handling:** Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed.

**Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PEIs
Sodium chloride	none listed	none listed	none listed

**OSHA Vacated PELs:** Sodium chloride: No OSHA Vacated PEIs are listed for this chemical.

### Personal Protective Equipment

**Eyes:** Wear safety glasses with side shields.

**Skin:** Wear appropriate gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

## Section 9 - Physical and Chemical Properties

**Physical State:** Solid

**Appearance:** colorless or white

**Odor:** odorless

**pH:** Aq soln is neutral

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:**Not available.

**Viscosity:** Not available.

**Boiling Point:** 1461 deg C

**Freezing/Melting Point:**801 deg C

**Decomposition Temperature:**Not available.

**Solubility:** Freely Soluble.

**Specific Gravity /Density:** 2.165

**Molecular Formula:** NaCl

**Molecular Weight:** 58.43

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable. Hygroscopic: absorbs moisture or water from the air.

**Conditions to Avoid:** High temperatures, exposure to moist air or water.

**Incompatibilities with Other Materials:** Reacts with most nonnoble metals such as iron or steel, building materials (such as cement), bromine, or trifluoride. Potentially explosive reaction with dichloromaleic anhydride + urea. Electrolysis of mixtures with nitrogen compounds may form explosive nitrogen trichloride.

**Hazardous Decomposition Products:** Toxic fumes of sodium oxide.

**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

**RTECS#:**

**CAS#** 7647-14-5: VZ4725000

**LDSO/LCSO:**

CAS# 7647-14-5:

Draize test, rabbit, eye: 100 mg Mild;

Draize test, rabbit, eye: 100 mgj24H Moderate;

Draize test, rabbit, eye: 10 mg Moderate;

Draize test, rabbit, skin: 50 mgj24H Mild;

Draize test, rabbit, skin: 500 mgj24H Mild;

Inhalation, rat: LC50 = >42 gmjm3jIH;

Oral, mouse: LD50 = 4 gmjkg;

Oral, rat: LD50 = 3000 gmjkg;

Skin, rabbit: LD50 = >10 gmjkg;

**Carcinogenicity:**

CAS# 7647-14-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** Epidemiological evidence suggests a higher incidence of hypertension and cardiovascular disease in persons with a high dietary salt intake. The only adverse *effect* noted from occupational exposures have been mild nasal irritation with exposure to high dust levels and hypertension.

**Teratogenicity:** An experimental teratogen.

**Reproductive Effects:** Human reproductive effects by intraplacental route: terminates pregnancy. Experimental reproductive effects.

**Mutagenicity:** See actual entry in RTECS for complete information.

**Neurotoxicity:** No information reported.

**Other Studies:** No information reported.

## Section 12 - Ecological Information

No information available.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

## Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not regulated	Not Regulated
Hazard Class:	.	(8)
UN Number:		
Packing Group:		

## Section 15 - Regulatory Information

### US FEDERAL

#### TSCA

CAS# 7647-14-5 is listed on the TSCA inventory.

#### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

#### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

#### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

#### CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

#### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

#### SARA Codes

CAS # 7647-14-5: immediate.

**Section 313** No chemicals are reportable under Section 313.

#### Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

**Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 7647-14-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

**California Prop 65**

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations**

**European Labeling in Accordance with EC Directives**

**Hazard Symbols:**

Not available.

**Risk Phrases:**

**Safety Phrases:**

S 24/25 Avoid contact with skin and eyes.

**WGK (Water Danger/Protection)**

CAS# 7647-14-5: a

**Canada - DSL/NDSL**

CAS# 7647-14-5 is listed on Canada's DSL List.

**Canada - WHMIS**

This product has a WHMIS classification of Not controlled..

This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

**Section 16 - Additional Information**

**MSDS Creation Date:** 7/12/1999 **Revision #7 Date:** 09/17/2010

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the manufacturer be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the manufacturer has been advised of the possibility of such damages.