



Chemtec: (800) 424-9300
Poison Center: (800) 562-8236
Revision Date: January 8th, 2019

SAFETY DATA SHEET

Identity: Sodium chloride

Formula: NaCl

SECTION I - GENERAL INFORMATION

Manufacturer: Super Conductor Materials, Inc.

The information below is believed to be accurate and represents the best information available to Super Conductor Materials, Inc. However, SCM makes no warranty, expressed or implied with respect to such information and assumes no liability resulting from its use.

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Molecular weight: 58.44

CAS #	OSHA PEL	ACGIH TLV	%
7647-14-5	NE	NE	0.0-100.0%

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: 1413.00°C
Melting Point: 801.00°C
Evaporation Rate: N/D
Solubility in water: soluble

Vapor Pressure (vs. air or mmHg):1 at 865.0°C
Density: 2.165 g/cm³ at 25.0°C
Flash Point: N/A

Appearance and odor: Colorless to white crystalline powder and pieces; no odor; salty taste

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Method Used: Unknown
Explosive Limits: LEL: N/A UEL: N/A
Extinguishing Media: Use suitable extinguishing agent for surrounding material and type of fire

Special Fire Fighting Procedures:

Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

Unusual Fire and Explosion Hazards:

- When heated to decomposition, it emits toxic fumes of Cl- and Na2O.
- Reaction with burning lithium forms sodium.
- At 1100 C it reacts violently with water.



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- Potentially explosive reaction with dichloromaleic anhydride and urea.
- Electrolysis of mixtures with nitrogen compounds may form the nitrogen trichloride.
- May have a violent reaction with BrF₃.

SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid (stability): Oxidizing agents

Incompatibility: Lithium and heat; dichloromaleic anhydride and urea; nitrogen compounds and electrolysis; bromine trifluoride; water.

Hazardous Decomposition or Byproducts: Sodium oxide fumes and chlorine gas.

Hazardous Polymerization: Will not occur

Conditions to avoid (hazardous polymerization): Hydrogen chloride (HCl), Sodium oxide

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Ingestion? Yes Skin? Yes Eyes? Yes Others? No

Sodium compounds have variable toxicity. Sodium ions as such are practically nontoxic. The toxicity of sodium compounds has variable toxicity. (Sax, Dangerous Properties of Industrial Materials, eighth edition).

Signs and Symptoms of Overexposure:

Inhalation: May cause redness, coughing, and sore throat.

Ingestion: May cause nausea, diarrhea, cramps, restlessness, irritability, dehydration, water retention, nose bleed, GI damage, fever, sweating, sunken eyes, weakness, dry mouth and nose, shock cerebral or pulmonary edema, blood cell shrinkage, brain damage, cardiovascular collapse.

Skin: May cause redness and itching.

Eye: May cause redness, itching, burning and watering.

Health Hazards (Acute and Chronic):

Inhalation:

Acute: May cause irritation to the respiratory tract.

Chronic: No chronic health effects recorded.

Ingestion:

Acute: May be moderately toxic. May cause nausea, diarrhea, cramps, restlessness, irritability, dehydration, water retention, nose bleed, GI damage, fever, sweating, sunken eyes, weakness, dry mouth and nose, shock cerebral or pulmonary edema, blood cell shrinkage, brain damage, cardiovascular collapse. If ingested in large amounts it may cause serious kidney and central nervous system damage.

Chronic: May cause blood pressure to increase.

Skin:

Acute: May cause irritation.

Chronic: No chronic health effects recorded.



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Eyes:

Acute: May cause irritation.

Chronic: No chronic health effects recorded.

Target Organs: May affect the eyes, skin, and respiratory system.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Medical Conditions Aggravated by Exposure: None recorded

Emergency and First Aid Procedures:

Inhalation: Remove victim to fresh air, keep warm and quiet, and give oxygen if breathing is difficult; seek medical attention

Ingestion: Give 1-2 glasses of milk or water and induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person

Skin: Remove contaminated clothing, brush material off skin, wash affected area with mild soap and water, and seek medical attention if symptoms persist

Eye: Flush eyes with lukewarm water, lifting upper and lower eyelids for at least 15 minutes and seek medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled:

Wear appropriate respiratory and protective equipment specified in section VIII. Isolate spill area, provide ventilation and extinguish sources of ignition. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust.

Waste disposal method:

Dispose of in accordance with state, local, and federal regulations.

Hazard Label Information:

Store in cool, dry area and in tightly sealed container. Wash thoroughly after handling.

SECTION VIII - CONTROL MEASURES

Protective Equipment Summary (Hazard Label Information):

NIOSH approved respirator, impervious gloves, safety glasses, clothes to prevent contact.

Ventilation:

Local Exhaust: To maintain concentration at low exposure levels.

Mechanical (General): Recommended.

Work/Hygienic/Maintenance Practices:

Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

Please be advised that N/A can either mean Not Applicable or No Data Has Been Established