



Super Conductor Materials, Inc.

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

SAFETY DATA SHEET

Identity: Sodium

Formula: Na

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: 22.99

CAS #	OSHA PEL	ACGIH TLV	%
7440-23-5	N/A	N/A	0.0-100.0%

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: 883.00°C

Vapor Pressure (vs. air or mmHg): 1.2 at 400°C

Melting Point: 97.72°C

Specific Gravity (water=1): 0.968 g/cm³

Evaporation Rate:

Vapor Density (vs. air=1): 0.003 at 900°C

Solubility in water: Decomposes to NaOH and H₂

Flash Point: N/A

Appearance and odor: Silver-white metallic powder and pieces, no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Method Used: Flammable solid

Explosive Limits: LEL: N/A UEL: N/A

Extinguishing Media: Use Graphite powder, soda ash, powder sodium chloride or dry powder, DO NOT USE WATER, alcohol foam, carbon dioxide or halogenated extinguishing agents

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: Dangerous when wet, and oxidizes readily with air



SECTION V - REACTIVITY DATA

Stability: UNSTABLE

Conditions to Avoid (stability): Wet conditions, heat, air, exposure to oxide and halide compounds

Incompatibility: Oxidizing agents, water, acids, air halides, carbon dioxide, ammonia, chlorinated hydrocarbons, hydrogen peroxide, lead oxide, phosphorous, potassium oxides, sulfur and sulfur dioxide

Hazardous Decomposition or Byproducts: Oxides of sodium, NaOH, H₂

Hazardous Polymerization: Will not occur

Conditions to avoid (hazardous polymerization): None

SECTION VI - HEALTH HAZARD DATA

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

Sodium compounds have variable toxicity. A sodium ion as such is practically nontoxic. The toxicity of sodium compounds have variable toxicity. Sax, Dangerous Properties of Industrial Materials, eighth edition).

Signs and Symptoms of Overexposure:

Inhalation: May cause redness, coughing, sore throat, headache, nausea, vomiting, severe pain, and diarrhea, shortness of breath, labored breathing and possible collapse

Ingestion: May cause vomiting, diarrhea and gastritis

Skin: May cause redness, itching, pain and burns

Eye: May cause redness, itching, burning and watering

Health Hazards (Acute and Chronic):

Inhalation:

Acute: Severe irritant and corrosive. May cause severe irritation to mucous membranes and upper respiratory tract

Chronic: No chronic health effects recorded

Ingestion:

Acute: May cause burns to the mouth, esophagus, and gastrointestinal tract

Chronic: No chronic health effects recorded

Skin:

Acute: Severe irritant and corrosive

Chronic: No chronic health effects recorded

Eye:

Acute: Severe irritant and corrosive. May cause blurred vision and eye damage

Chronic: No chronic health effects recorded

Target Organs: Eyes, skin, respiratory system, mucous membranes, and gastrointestinal tract

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. Do NOT induce vomiting, seek medical attention. Never give anything by mouth to an unconscious person



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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. Cover with dry sand or other non-combustible material and place 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. Store away from incompatible materials. Wash thoroughly after handling.

Precautions: Sodium is air and moisture sensitive. Handle and store in a controlled environment and under mineral oil.

SECTION VIII - CONTROL MEASURES

Protective Equipment Summary (Hazard Label Information):

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

Ventilation:

Local Exhaust: NOT Recommended

Mechanical (General): NOT Recommended.

Special: Use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels.

Other: Keep dry under mineral oil

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