



Super Conductor Materials, Inc.

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SAFETY DATA SHEET

Identity: Sodium Carbonate

Formula: Na₂CO₃

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: 105.99

CAS #	OSHA PEL	ACGIH TLV	%
497-19-8	NE	NE	0.0-100.0%

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: 400.00°C

Melting Point: 851.00°C

Evaporation Rate: N/A

Solubility in water: Soluble

Vapor Pressure (vs. air or mmHg): N/A

Specific Gravity (Water=1): 2.53 g/cm³ at 0.0°C

Flash Point: N/A

Appearance and odor: White hygroscopic powder and pieces, no odor, alkali 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 may emit toxic fumes of sodium oxide.

May react violently with aluminum, phosphorus pentoxide; sulfuric acid; fluorine; lithium; 2, 4, 6,-trinitro-toluene.



SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid (instability): None

Incompatibility (Materials to avoid): Red-hot aluminum metal; phosphorus pentoxide; sulfuric acid; fluorine; lithium; 2,4,6-trinitrotoluene; 2,4-dinitrotoluene; ammonia+silver nitrate; sodium sulfide+water; hydrogen peroxide.

Hazardous Decomposition or Byproducts: Sodium oxide fumes and carbon dioxide

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. Sodium ions 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, shortness of breath and labored breathing.

Ingestion: May cause vomiting, diarrhea, and gastritis.

Skin: May cause redness, itching, pain and burns.

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

Health Hazards (Acute and Chronic):

Inhalation:

Acute: May cause severe irritation to mucous membranes and respiratory tract. Is moderately toxic and may cause nasal septum perforation.

Chronic: No chronic health effects recorded.

Ingestion:

Acute: May be mildly toxic.

Chronic: No chronic health effects recorded.

Skin:

Acute: May cause severe irritation with ulcer like burns.

Chronic: No chronic health effects recorded.

Eyes:

Acute: May cause severe irritation, blurred vision and eye damage.

Chronic: No chronic health effects recorded.

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

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.

Precautions: Sodium carbonate is hygroscopic. Store in a controlled environment.

SECTION VIII - CONTROL MEASURES

Protective Equipment Summary (Hazard Label Information):

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

Ventilation:

Local Exhaust: Local exhaust ventilation may be necessary to control any air contaminants to low exposure levels during the use of this product.

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

Mechanical (General): Good general ventilation is 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