

Super Conductor Materials, Inc.

391 Spook Rock Industrial Park, Suffern, NY 10901 · 845.368.0240 · Fax 845.368.0250 · www.scm-inc.com

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

SAFETY DATA SHEET

Identity: Magnesium sulfide

Formula: MgS

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: 56.38

CAS #	OSHA PEL	ACGIH TLV	%
12032-36-9	N/A	N/A	0.0-100.0%

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: N/A

Melting Point: 2000°C

Evaporation Rate: N/A

Solubility in water: Decomposes

Specific Gravity (water=1): 2.84 g/cm³

Vapor Pressure: N/A

Flash Point: N/A

Appearance and odor: Pale red to reddish-brown crystalline solid, unknown odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Method Used: No Data

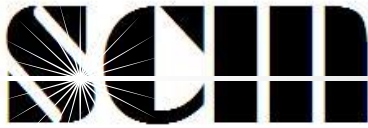
Explosive Limits: LEL: N/A

UEL: N/A

Extinguishing Media: Use dry chemical, CO₂ or graphite. DO NOT USE WATER.

Special Fire Fighting Procedures: No special firefighting procedures needed, use normal procedures which include wearing NIOSH/MSHA approved self-contained breathing apparatus, flame and chemical resistant clothing, hats, boots, and gloves.

Unusual Fire and Explosive Hazards: When heated to decomposition, it may emit toxic fumes of SO_x. Sulfides can react violently when exposed to flame or oxidizers. Hydrogen sulfide is evolved upon contact with water/moisture.



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SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid (Instability): Heat, flames and incompatible materials

Incompatibility Materials to Avoid: Water, moisture, steams acids, strong bases, and oxidizing agents.

Hazardous Decompositions or Byproducts: MG, MgOx, S, SOx, H2S.

Hazardous Polymerization: Will not occur

Conditions to avoid (Hazardous Polymerization): No Data

SECTION VI - HEALTH HAZARD DATA

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

To the best of our knowledge the physical, chemical and toxicological properties of magnesium sulfide have not been thoroughly investigated and recorded.

Magnesium compounds have variable toxicity. The inhalation of fumes of freshly sublimed magnesium oxide may cause metal fume fever. There is no evidence that magnesium produces true systemic poisoning. Protection necessary for personnel handling and processing magnesium is usually no different from that which is necessary for other metals.

Sulfides of the heavy metals are generally insoluble and hence have little toxic action except through the liberation of hydrogen sulfide.

Signs and Symptoms of Overexposure:

Inhalation: May cause sneezing, coughing, difficulty breathing, and irritation of the respiratory tract.

Ingestion: No data

Skin: May cause irritation, itching, and dermatitis.

Eyes: May cause burning sensation, irritation, redness and watering of the eyes if it comes in contact.

Health Hazards (Acute and Chronic):

Inhalation:

Acute: May cause a red dry throat, coughing, irritation of the nose, sneezing, complexion, cold sweat, diarrhea, muscular weakness and drowsiness.

Chronic: No Chronic health effects recorded

Ingestion:

Acute: May cause gastrointestinal disturbances.

Chronic: No Chronic health effects recorded

Skin:

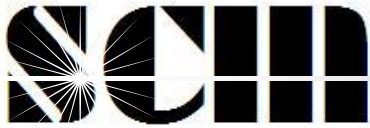
Acute: May cause redness, burning sensation, inflammation and itching.

Chronic: No Chronic health effects recorded

Eye:

Acute: May cause burning sensation, irritation, redness and watering.

Chronic: No Chronic health effects recorded



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Target Organ: No Data

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

Medical Conditions Aggravated by Exposure: Respiratory Disorder

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.

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: Handle in an inert gas such as argon in a controlled and enclosed process. Use local exhaust to maintain concentration at low exposure levels

Mechanical (General): Not 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