

Material Safety Data Sheet

Identity: Calcium Sulfide

Formula: CaS

Section I - General Information

Manufacturer: [Stanford Advanced Materials](#) (SAM)

The information below is believed to be accurate and represents the best information available to SAM. However, SAM makes no warranty, expressed or implied with respect to such information and we assume no liability resulting from its use.

Section II - Hazardous Ingredients/Identity Information

Calcium Sulfide	
Concentration %	100
CAS/NA or UN #	20548-54-3
Exposure Limits	ACGIH/TLV: N/A

Section III - Physical/Chemical Characteristics

Boiling Point: NA	Specific Gravity (water=1): 3.98
Melting Point: 1360 °C	Vapor Pressure: 0
Physical States: Solid	Vapor Density: NA
Evaporation Rate: 0	Solubility in water: Insoluble
	Percent Volatile: NA

Appearance and odor: White powder.

Section IV - Fire and Explosion Hazard Data

Flash Point: NA *Flammability:* No

Extinguishing Media: Wear protective fire fighting clothing and self-contained breathing apparatus. Do not use water. Use carbon dioxide, dry chemical extinguishing agents, dry sand, or dry ground dolomite.

Unusual Fire and Explosion Hazards: NA

Section V - Reactivity Data

Stability: Stable

Conditions to Avoid: NA

Incompatibility - Materials to Avoid: Acids, water, moisture, steam, potassium nitrate
Hazardous Decomposition or Byproducts:

Section VI - Health Hazard Data

Mode of Entry: Inhalation: Yes Skin: No

Carcinogenicity: NTP: No IARC: No OSHA: No

Acute exposure:

Eyes: May cause burning sensation, irritation, redness and watering. Skin:

May cause redness, burning sensation, inflammation and itching.

Ingestion: May cause burning sensation in mouth, chest and stomach, pain in swallowing and stomach cramps.

Inhalation: May cause a red dry throat, coughing, irritation of the nose, sneezing, headache, excitability, dizziness, staggering, nausea, vomiting, difficulty breathing, pale complexion, cold sweat, diarrhea, muscular weakness, and drowsiness.

Emergency and First Aid: In case of eye contact, flush eyes with lukewarm water for 15 minutes, seek medical attention. In case of skin contact brush material off skin. Wash affected area with soap and water, seek medical attention.

In case of inhalation, remove victim to fresh air, administer oxygen if breathing is difficult. Seek medical attention.

In case of ingestion, do not induce vomiting. Give large quantities of water or milk if available. Contact a physician.

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 - control measures. 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. Use non-sparking tools.

Waste disposal method:

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

Hazard Label Information:

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

Section VIII - Control Measures

Protective Equipment Summary - Hazard Label Information:

NIOSH/MSHA approved respirator, Impervious gloves, Safety glasses, clothes to prevent skin contact.

Respiratory Protection (Specify Type) - NIOSH - approved dust respirator.

Ventilation:

Local Exhaust: To maintain concentration at low exposure levels.

Mechanical (General): Recommended.

Protective Gloves: Rubber gloves. *Eye Protection:* Safety glasses.

Other Protective Clothing or Equipment: Protective gear suitable to prevent contamination.

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 and smoking. Do not blow dust off clothing or skin with compressed air.