

Material Safety Data Sheet

Identity: Calcium

Formula: Ca

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

Hazardous Components	CAS #	OSHA PEL	ACGIH TLV	%
Calcium	7440-70-2		5 mg/m3	100

Section III - Physical/Chemical Characteristics

Boiling Point: 100°C

Melting Point: NA

States: Clear

Rate: NA

Specific Gravity (water=1): 1

Vapor Pressure: NA Physical

Vapor Density: NA Evaporation

Solubility in water: Complete

Percent Volatile: NA

Section IV - Fire and Explosion Hazard Data:

Flammability: No

Flash Point: N/A

Means of extinction: Class D fire, do not use water. Use dry chemical, dry sand or CO2 to smother fire. Use appropriate media to extinguish surrounding fire.

Section V - Reactivity Data

Stability: Stable*Conditions to Avoid:* N/A*Incompatibility:* Organic materials, strong reducing agents.

Section VI - Health Hazard Data

Routes of entry: Inhalation, skin

Carcinogenicity: NTP: No IARC: No OSHA: No

Acute exposure:

Eyes: May cause burns to eyes.

Skin: May cause burns to skin.

Ingestion: May cause nausea, vomiting and loss of consciousness.

Inhalation: May cause coughing and difficulty breathing.

Emergency and First Aid Procedures:

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

Ingestion: Give 1 - 2 glasses of milk and do NOT induce vomiting; seek medical attention if symptoms persist.

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

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

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