

Material Safety Data Sheet

Identity: Barium sulfide

Formula: BaS

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 assumes no liability resulting from its use.

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Barium Sulfide

CAS #	ACGIH TLV	%
21109-95-5	NA	100

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States:

Boiling Point: NA	Vapor Pressure: NA
Melting Point: 1200	Vapor Density: NA
Evaporation Rate: NA	Specific Gravity (Water =1): 4.25
Solubility in water: Decomposes	% Volatile: NA
Physical Form: White to gray	
<i>Appearance and odor:</i>	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Flash Point: NA

Flash Point: NA

Means of extinction: Wear protective fire fighting clothing and self contained breathing apparatus. Do not use water. Use CO2, dry chemical extinguishing agents, dry sand or dry ground dolomite.

SECTION V – REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Moisture, Thermal decomposition.

Incompatibility - Materials to Avoid: ClO, PbO₂, KClO₃, H₂O, acid and acid fumes.

Hazardous Decomposition or Byproducts: None recorded.

Hazardous Polymerization: None.

Conditions to avoid- Hazardous Polymerization: None

SECTION VI – HEALTH HAZARD DATA

Route(S) of Entry: Inhalation? Yes Skin? No

Carcinogenicity: NTP: No IARC: No OSHA: No

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: Toxic due to fluoride, may cause nausea, diarrhea, and abdominal burning.

Inhalation: May cause irritation.

Emergency and First Aid:

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, and seek medical attention.

In case of ingestion, do induce vomiting. Give large quantities of milk or water. 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 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 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