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# THE BTTCO OVERSEAS

A GOVT. OF INDIA RECOGNIZED \*STAR EXPORT HOUSE\*  
A D&B CERTIFIED COMPANY - DUNS NUMBER: 87-229-6440

## Material Safety Data Sheet Barium Sulphide

### Section 1- Chemical Product and Company Identification

**Trade Name** : Barium Sulphide / Sulfide  
**Chemical Name** : Barium Sulfide  
**Chemical Formula** : BaS  
**CAS** : 21109-95-5

**Company Name and Address:** The BTTCO Overseas  
6, Ashirvad Complex, Nr. Sardar Patel Seva Samaj Hall,  
Navrangpura, Ahmedabad – 380009

**Telephone number** : +91-94265 96891  
**Contact Person** : Dinesh Lunkad

### Section 2 - Composition/Information On Ingredients

**Chemical Family** : Non metal  
**Additional Names** : Barium monofulfide  
**Barium Sulfide (BaS)** : Percentage: 100 wt%  
CAS #: 21109-95-5  
EC #: 244-214-4

### Section 3 - Hazards Identification

**Potential Acute Health Effects** : Extremely hazardous in case of ingestion, of inhalation. Very hazardous in case of skin contact (irritant), of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Potential Chronic Health Effects** : Extremely hazardous in case of ingestion, of inhalation. Very hazardous in case of skin contact (irritant), of eye contact (irritant).

**Carcinogenic Effects** : Not available.

**Mutagenic Effects** : Not available.

**Teratogenic Effects** : Not available.

**Developmental Toxicity** : Not available.

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The substance is toxic to the nervous system, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

### Section 4 - Emergency And First Aid Procedures

<b>Eyes</b>	: Flush eyes with water, blinking often for several minutes. Remove Contact lenses if present and easy to do. Continue rinsing. Seek Immediate medical attention.
<b>Skin</b>	: Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical Attention.
<b>Inhalation</b>	: Remove victim to fresh air. Supply oxygen if breathing is difficult. Keep patient warm. Seek immediate medical attention.
<b>Ingestion</b>	: Seek immediate medical attention.
<b>General Treatment</b>	: Seek medical attention if symptoms persist.
<b>Special Treatment</b>	: None
<b>Important Symptoms</b>	: None

### Section 5 - Fire Fighting Measures

<b>Flammability</b>	: Flammable
<b>Extinguishing Media</b>	: Do not use water for fires – use CO <sub>2</sub> , sand, extinguishing powder.
<b>Spec. Fire Fighting Procedure</b>	: Use full-face, self-contained breathing apparatus with full protective Clothing to prevent contact with skin and eyes. See section 10 for Decomposition products.



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### Section 6 - Accidental Release Measures

**If Material Is Released/Spilled**

: Wear appropriate respiratory and protective equipment specified in special protection information. Keep unprotected persons away. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.

**Environmental Precautions** : Isolate runoff to prevent environmental pollution.

### Section 7 - Handling And Storage

**Handling Conditions**

: Handle under dry protective gas. Avoid contact with skin and eyes. Wash thoroughly after handling.

**Storage Conditions**

: Store in a cool dry place in a tightly sealed container. Store under Dry inert gas. Store away from water/moisture, acids, humidity. Store apart from materials and conditions listed in section 10.

**Work/Hygienic Maintenance**: 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.

**Ventilation**

: Provide sufficient ventilation to maintain concentration at or below Threshold limit.

### Section 8 - Exposure Controls and Personal Protection

**Eye Protection**

: Safety glasses or goggles

**Body Protection**

: Protective work clothing. Wear close-toed shoes and long sleeves/pants.

**Permissible Exposure Limits** : 0.5 mg/m<sup>3</sup> as Ba, long-term value

**Threshold Limit Value**

: 0.5 mg/m<sup>3</sup> as Ba, long-term value

**Special Equipment**

: Properly operating chemical fume hood designed for hazardous Chemicals and having an average face velocity of at least 100 feet Per minute.



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**Respiratory Protection** : Dust Respirator

**Protective Gloves** : Nitrile rubber gloves with minimum thickness of 0.11 mm

### Section 9 - Physical and chemical Characteristics

**Color** : Black  
**Form** : Powder, Granules, Pellets, Sputtering target, Custom parts  
**Odor** : Rotten eggs (sulphurous)  
**Water Solubility** : 72.8 g/L  
**Boiling Point** : N/A  
**Melting Point** : 1200°C  
**Flash Point** : N/A  
**Autoignition Temperature** : N/A  
**Density** : 4.25 g/cc  
**Molecular weight** : 169.39 g/mol

### Section 10 – Reactivity

**Stability** : Stable under recommended storage conditions

**Reacts With** : Oxidizing agents, Acids, Phosphorous oxides, Lead, Potassium chlorate, Potassium nitrate

**Incompatible Conditions** : Water/moisture, Humidity

**Hazardous Decomposition Products** : Metal oxide fume, Sulphur oxides, Barium oxide, Hydrogen sulfide

### Section 11 - Toxicological Information

#### Potential Health Effects

**Eyes** : May cause irritation  
**Skin** : May cause irritation  
**Inhalation** : Harmful if inhaled  
**Ingestion** : Harmful if swallowed  
**Chronic** : N/A  
**Signs & Symptoms** : Nausea, Vomiting, Diarrhea  
**Aggravated Medical Conditions** : N/A



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<b>Median Lethal Dose</b>	: 271 mg/kg for rat by mouth
<b>Carcinogen</b>	: IARC: No component of this product present at levels greater Than or equal to 0.1% is identified as probable, possible or Confirmed human carcinogen by IARC.
<b>NTP</b>	: No component of this product present at levels greater than or Equal to 0.1% is identified as a known or anticipated carcinogen By NTP.
<b>OSHA</b>	: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Section 12 - Ecological Information

<b>Aquatic Toxicity</b>	: Very toxic for aquatic organisms. Persistent Bioaccumulation
<b>Toxicity</b>	: N/A
<b>Very Persistent, Very Bioaccumulative</b>	: N/A

<b>Notes</b>	: Do not allow product to reach ground water, water course and sewage systems. Avoid transfer into the environment. Do not allow material to be released to the environment without proper governmental permits. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.
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### Section 13 - Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

### Section 14 - Transportation Data

<b>DOT Classification</b>	
<b>Class</b>	: 4.3, Dangerous when wet material
<b>Identification</b>	: Barium Sulfide
<b>UNNA</b>	: UN2813
<b>Packing Group</b>	: III
<b>Special Provisions for Transport</b>	: Marine Pollutant



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## Section 15 - Regulatory Information

### Sec 302

**Extremely Hazardous** : No

### Sec 304

**Reportable Quantities** : N/A

### Sec 313

**Toxic Chemicals** : Yes

## Section 16 - Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

**Date: 01.04.2024**

**Place: Ahmedabad, Gujarat, India**