

LTS Research Laboratories, Inc. Safety Data Sheet Barium Sulfide – Copper Sulfide

1. Product and Company Identification

Trade Name: Barium sulfide – copper sulfide

Chemical Formula: BaCu₂S₂

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 845-587-2436 / 845-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H302+H332: Harmful if swallowed or if inhaled

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P264: Wash thoroughly after handling.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P301+P312: IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell

P312: Call a POISON CENTER or doctor/physician if you feel unwell

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 2

3. Composition	
Additional Names:	None
Barium sulfide (BaS):	
Percentage:	0-100 wt%
CAS #:	21109-95-5
EC #:	244-214-4
Copper sulfide (Cu ₂ S):	0.400
Percentage:	0-100 wt%
CAS #:	22205-45-4
EC #:	244-842-9
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
_	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
	3.1 Teligituing ivicasures
Flammability:	Non-flammable benetories, Inc.
Extinguishing Media:	Do not use water – use CO ₂ , sand, extinguishing powder.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
	special protection information. 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.
E. Caramana (J. Daniera Comer	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Handle under dry protective gas. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry
World / Hygionia Maintenana	inert gas. 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.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.5 mg/m³ as Ba, long-term value Threshold Limit Value: 0.5 mg/m³ as Ba, long-term value

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Grey

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Odorles

Water Solubility: Reacts with and liberates toxic gases

Boiling Point:

Melting Point:

N/A

Melting Point:

N/A

Flash Point:

Autoignition Temperature:

N/A

Density:

N/A

Molecular weight:

N/A

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Water, Acids, Oxidizing agents
Incompatible Conditions: Water/moisture

Hazardous Decomposition Products: Barium oxide, Sulfur oxide, Hydrogen sulfide, Copper oxides,

Metal oxide fume

Note: Barium sulfide, when in contact with water, releases toxic hydrogen

sulfide gas (HS)

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation Skin: May cause irritation

Ingestion: Harmful Inhalation: Harmful Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 4.3 Substances which, in contact with water, emit dangerous gases.

Secondary Class: 6.1 Toxic substances.

Packing Group: III UN Number: UN3134

Proper Shipping Name: Water-reactive solid, toxic, n.o.s. (Barium copper sulfide)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A

Sec 313 Toxic Chemicals: Yes: Barium sulfide, Copper sulfide

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.

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