

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Barium Metal

- 1	Product and	Company	Identification	

1. Product and Company Identification

Trade Name: Barium Chemical Formula: Ba

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H228: Flammable solid

H261: In contact with water releases flammable gas

Precautionary Statements: P210: Keep away from heat/sparks/open flames/hot surfaces – No

smoking

P231+ P232: Handle under inert gas. Protect from moisture

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P370+P378: In case of fire: Use Fire extinguishing powder for

extinction

P402+P404: Store in a dry place. Store in a closed container

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 1
Flammability: 3
Physical: 2

3. Composition

Chemical Family: Ceramic

Additional Names:

Barium (Ba):

Percentage: 100 wt% CAS #: 7440-39-3 EC #: 231-149-1

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None **Important Symptoms:** None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Seek medical attention. Ingestion: Skin: Wash affected area with mild soap and water. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Flammability: Flammable Extinguishing Media: Do not use water – use CO₂, sand, extinguishing powder. Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure: 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. Keep away from ignition sources. Take care not to raise dust. Isolate runoff to prevent environmental pollution. **Environmental Precautions:** 7. Handling and Storage **Handling Conditions:** Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:** materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance: 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:** Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use

equipment tested and approved under appropriate government

standards.

Protective Gloves: Nitrile rubber, NBR 0.11mm thick.

Penetration time of glove material: 480 minutes

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	Silver grey		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Odorless		
Water Solubility:	Insoluble		
Boiling Point:	1640 °C		
Melting Point:	727 °C		
Flash Point:	N/A		
Autoignition Temperature:	N/A		
Density:	3.62 g/cc		
Molecular weight:	137.327 g/mol		
	10. Reactivity		
Stability:	Stable under recommended storage conditions		
Reacts With:	Water, Oxidizing agents		
Incompatible Conditions:	Air, Water/moisture		
Hazardous Decomposition Products:	Barium oxide		
	1. Toxicological Information		
Potential Health Effects:			
Eyes:	May cause irritation		
Skin:	May cause irritation		
Ingestion:	May cause irritation		
Inhalation:	May cause irritation		
Chronic:	N/A		
Signs & Symptoms:	N/A		
Aggravated Medical Conditions:	N/A		
115514, alou 1110dicai Conditions.			
Median Lethal Dose:	N/A		
Carcinogen:	N/A		
	12. Ecological Information		
Aquatic Toxicity:	Low		
Persistent Bioaccumulation Toxicity:	No		
Very Persistent, Very Bioaccumulative:			
Notes:	N/A		

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous



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

Packing Group: II

UN Number: UN1400
Proper Shipping Name: Barium

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: Yes

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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