

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: This information applies to all CIMBAR[®], BARISCAN[®] and MITI-WITE[®] product lines
 Material Uses: Contrast Agent, Weighting Material, Filler.
 Generic Description: Barite, Barytes
 Manufacturer: CIMBAR Performance Minerals
 49-0 Jackson Lake Rd., Chatsworth GA 30705
 Emergency Phone: (800)-852-6868, ext. 1108

2. HAZARDS IDENTIFICATION

Signal Word: Warning
 GHS Classification: Eye, skin, respiratory irritant (Category 4)
 OSHA\MSHA Hazards: Nuisance Dust
 Target Organs: Eye, lung



Hazard Statement(s):
 Routes of Entry: Inhalation, Eye Contact, Skin Contact, Ingestion.
 Carcinogenic Status: None.
 Health Effect-Eyes: Direct contact with dust may cause mechanical irritation of the eyes.
 Health Effects-Skin: Direct contact may cause slight dryness, or may cause mild irritation.
 Health Effects-Ingestion: Barite is considered to be relatively non-toxic due to non-absorption.
 Health Effects-Inhalation: Inhalation of fine barite dust may cause irritation of the nose and throat.
 Other Health Warnings: N / A

3. COMPOSITION/INFORMATION ON THE COMPONENTS

Chemical Name	Typical Concentration (% wt)	CAS#
Barium Sulfate (BaSO ₄)	96-98%	7727-43-7
Silicon Dioxide (SiO ₂)	0.01-1.0%	14808-60-7
Strontium Sulfate (SrSO ₄)	0.01-1.5%	7759-02-6

Respirable Silica: The amount of respirable silica (< 10 microns) is less than 0.1%

4. FIRST AID MEASURES

First Aid-Eyes: Wash eyes with large amounts of water or normal saline solution. If irritation or redness develops, seek medical attention.

First Aid-Skin: Apply common skin moisturizers to relieve dryness. Irritations are uncommon; however, if irritation or redness develops, seek medical attention. Broken skin can be cleansed with mild soap and water.

First Aid-Ingestion: Barite is considered to be relatively non-toxic due to non-absorption.

First Aid-Inhalation: Remove from exposure to fresh air. If breathing has stopped, perform artificial respiration and get medical attention immediately. Keep person warm and at rest. Treat symptomatically and supportively.

Emergency Eye Wash: When there is a possibility that an employee's eyes may be exposed to bulk quantities or high concentrations of airborne dust of this substance, the employer should provide an eye wash fountain within the immediate work area for emergency.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Not readily combustible. Select extinguishing agent appropriate to other materials involved. Special Hazards of Product: Avoid the formation of dust clouds.
Protective Equipment for Fire-fighting: No specific measures necessary.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: No specific measures necessary

7. HANDLING AND STORAGE

Handling: Preserve in sealed containers to prevent dispersion of dust in air. Wash hands thoroughly after handling.
Storage: Store in original containers. Storage area should in dry and well-ventilated areas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

United States	<u>Exposure Limits:</u> ACGIH TLV (United States, 01/2005) TWA: 10 mg/m ³ (8 hours). Form: All forms. NIOSH REL (United States, 12/2001) TWA: 5mg/m ³ (10 hours). Form: All forms. TWA: 10mg/m ³ (10 hours). Form: Total OSHA PEL (United States, 08/1997) TWA: 0.5 mg/m ³ (8 hours). Form: All forms TWA: 5 mg/m ³ (8 hours). Form: Respirable fraction. TWA: 15 mg/m ³ (8 hours). Form: Total dust.
Canada	ACGIH TLV (United States, 01/2005) TWA: 10 mg/m ³ (8 hours) Form: All forms.
Mexico	NOM-010-STPS (Mexico, 09/2000) CPT: 0.5 mg/ ³ m (8 hours). Form: All forms.

Occupational Exposure Standards:

OSHA TWA(respirable dust)-5 mg/m³; ACGIH, OSHA TWA(total dust)-10 mg/m³

Engineering Control Measures: Engineering methods to prevent or control exposure are preferred. If they are not effective, then suitable personal protective should be used.

Respiratory Protection: The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

Hand Protection: Protective gloves are not required, but may be worn to prevent skin dryness or irritation.

Eye Protection: Dust tight goggles

Body Protection: Normal work wear

Emergency Eye Wash: When there is a possibility that an employee's eyes may be exposed to bulk quantities or high concentrations of airborne dust of this substance, the employer should provide an eye wash fountain within the immediate work area for emergency.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder.

Odor: Odorless

Color: Beige to white.

Boiling Point: N/A

Melting Point: N/A
Evaporation Rate: N/A
Vapor Pressure (mm Hg): N/A
Vapor Density (Air=1): N/A
Solubility in water: Insoluble in Water
MOHS Hardness: 2.5-3.5

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.
Incompatibility: With powdered aluminum, violently explosive; with phosphorus(primed with potassium nitrate-calcium silicide), ignites
Decomposition/By Products: Thermal decomposition products may include toxic and hazardous oxides of sulfur and barium oxides.
Hazardous Polymerization: Hazardous polymerization has not been reported to occur under normal temperatures and pressures

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Tumorigenic data(RTECS), Mutagenic data(RTECS)
Chronic Toxicity/Carcinogenicity: Inhaled fine dusts of barium sulfate form harmless nodular granules in the Baritosis produces no symptoms of bronchitis or emphysema. Lung functioning is not affected, although some patients complain of dyspnea upon exertion.
Genotoxicity: None Reproductive/Developmental
Toxicity: None

12. ECOLOGICAL INFORMATION

Mobility: The product is insoluble in water
Persistence/Degradability: No relevant studies identified
Bio-Accumulation: No relevant studies identified
Ecotoxicity: No relevant studies identified

13. DISPOSAL

Product Disposal: Dispose of in accordance with all applicable local and national regulations.
Container Disposal: Dispose of containers with care.

14. TRANSPORT INFORMATION

This substance is not regulated as a hazardous material by DOT.

15. REGULATORY INFORMATION

US Federal Regulations:

TSCA 8(b) Inventory: Yes
Domestic Substance List (DSL): Yes.
SARA 302/304/311/312 (extremely hazardous substance): No products found.
SARA 302/304 (emergency planning and notification): No products found.
Clean Water Act (CWA) 307/311: No products found.
Clean Air Act (CAA) 112 : No products found.

State Regulations:

California Prop. 65: No products founds.

Canada Regulations: Not controlled under WHMIS.

International Inventory Lists: This product and its ingredients are listed on the following inventories: Australia (AICS), Europe (EINECS/ELINC), Korea (TCCL), Japan (METI), Philippines (RA6969)

REACH Status: This product is a naturally occurring mineral substance and is therefore exempt from the registration requirement. (source: EXEMPTIONS FROM THE OBLIGATION TO REGISTER IN ACCORDANCE WITH ARTICLE 2 (7) (b), Annex II, Annex V

16. OTHER INFORMATION\CONTACT

The information contained herein is based on data available to CIMBAR Performance Minerals and is believed to be correct. However, CIMBAR Performance Minerals makes no warranty, expressed or implied, regarding the accuracy or completeness of this information or the results to be obtained from the use thereof.

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