



WHITE BARIUM SULFATE

MSDS

1. Product Identification

Synonyms: Naturally occurring barium sulfate.

CAS No.: 7727-43-7

Chemical Name: Barium Sulfate

Chemical Formula: BaSO₄

Product Codes: ExBar W 300, ExBAR W 325, ExBAR W 400, ExBAR W 4, W2, W1

2. Composition/Information on Ingredients

Barite is a naturally occurring mineral, which may, depending upon its occurrence, contain minor amounts of the following:

Ingredient	CAS No	Percent	Hazardous
Clay	1332-58-7	<5%	No
Quartz	14808-60-7	<0.1%	No
Calcite	471-34-1	<1%	No

3. Hazards Identification

Potential Health Effects

Inhalation:

Excessive concentrations of a nuisance dust may cause nuisance condition such as coughing, sneezing, and nasal irritation. Repeated inhalation may cause delayed lung injury.

Ingestion:

Barite is considered to be relatively non-toxic due to non-absorption.

Skin Contact:

Direct contact may cause dryness and itching.

Eye Contact:

Direct contact may cause mechanical irritation.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

Treat symptomatically. If symptoms persist, seek medical advice.

Skin Contact:

Cotton gloves may be used if skin becomes excessively dry. Apply skin moisturizer.

Eye Contact:

Wash thoroughly with running water. Get medical advice if irritation develops.

5. Fire Fighting Measures

Flash Point/Range: Not Determined

Autoignition Temperature: Not Determined

Flammability Limits in Air - Upper (%): Not Determined

Special Exposure Hazards: Not applicable.

NFPA Ratings: Health 1, Flammability 0, Reactivity 0

Flash Point Method: Not Determined

Flammability Limits in Air - Lower (%): Not Determined

Fire Extinguishing Media: All standard firefighting media.

Special Protective Equipment for Fire Fighters: Not applicable.

HMIS Ratings: Flammability 0, Reactivity 0, Health 1

6. Accidental Release Measures

No special precautions are required for clean up.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

OSHA Permissible Exposure Limit (PEL):

15 mg/m³ total dust, 5 mg/m³ respirable fraction for nuisance dusts.

ACGIH Threshold Limit Value (TLV):

10 mg/m³ total dust containing no asbestos

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.

Skin Protection: Gloves, apron or coveralls.

Eye Protection: GOGGLES.

9. Physical and Chemical Properties

Appearance: Powder – white to tan in color.
Odor: Odorless.
Solubility: Insoluble in water.
pH: No information found.
% Volatiles by volume @ 21C (70F): 0
Boiling Point: Not applicable.
Melting Point: 2876 degrees Fahrenheit
Vapor Density (Air=1): No information found.
Vapor Pressure (mm Hg): No information found.
Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.
Decomposition Products: Thermal decomposition may produce toxic oxides of sulfur and barium.
Hazardous Polymerization: Will not occur.

11. Toxicological Information

Carcinogenic Data:

--(Cancer Lists)-----

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Barium Sulfate (7727-43-7)	No	No	None
Quartz (14808-60-7)	No	No	None

12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. Transport Information

Not regulated.

14. Other Information

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0

Label Hazard Warning:

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. NUISANCE DUST.

Label Precautions:

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Avoid breathing dust.

Keep container closed.

Use with adequate ventilation.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. If irritation develops, call a physician. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.

Not listed as a Hazardous Substance under: EPCRA Section 302 Extremely Hazardous Substances (EHSs); EPCRA Section 313 Toxic Chemicals; CERCLA Hazardous Substances; CAA Section 112(r) List of Substances for Accidental Release Prevention; or RCRA Hazardous Wastes.

For Further Information Contact:

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Risk Manager

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For Emergency Information Call: 281-872-3732 (24 hours)

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