



BARIUM SULFATE

MSDS

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Synonyms: Naturally occurring barium sulfate, Barite, Barytes
CAS No.: 7727-43-7
Chemical Name: Barium Sulfate
Chemical Formula: BaSO₄
Product Codes: ExBAR, ExWATE, NewBAR, NewWate, ExBAR 200, ExBAR 325, ExBAR 400, ExBAR 4, ExBAR F

SECTION 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
Calcite	471-34-1	<1%	No

SECTION 3: HAZARDS IDENTIFICATION

Hazard Warning:

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

Precautions:

Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.
Avoid breathing dust.
Keep container closed.
Use with adequate ventilation.

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.

SECTION 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.

SECTION 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

SECTION 6: ACCIDENTAL RELEASE MEASURES

General: Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Vacuum or sweep material and place in a suitable container. Avoid generating dust. Provide ventilation.

SECTION 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.

SECTION 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder – white, tan, brown, reddish brown, gray or black 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.

SECTION 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.

SECTION 11: TOXICOLOGICAL INFORMATION

Carcinogenic Data:

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

SECTION 12: ECOLOGICAL INFORMATION

Environmental Fate:	No information found.
Environmental Toxicity:	No information found.

SECTION 13: DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Part 261.3. Waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed

SECTION 14: TRANSPORT INFORMATION

Land Transportation	
DOT	Not restricted
Canadian TDG	Not restricted
ADR	Not restricted
Air Transportation	
ICAO/IATA	Not restricted
Sea Transportation	
IMDG	Not restricted
Other Transportation Information	
Labels	None

SECTION 15: REGULATORY INFORMATION**US Regulations:**

US TSCA Inventory	All components listed on inventory or are exempt.
EPA SARA Title III Extremely	Not applicable

Hazardous Substances

EPA SARA (311, 312) Hazard Class	Acute Health Hazard; Chronic Health Hazard
EPA SARA (313) Chemicals	Does not contain a toxic chemical for routine annual "Toxic Chemical Release Inventory" under Section 313 (40 CFR 372)
EPA CERCLA/Superfund Reportable Spill Quantity	Not applicable
EPA RCRA Hazardous Waste Classification	If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.
California Proposition 65	The California Proposition 65 regulations apply to this product.
MA Right-to-Know Law	One or more components listed.
NJ Right-to-Know Law	One or more components listed.
PA Right-to-Know Law	One or more components listed.
Canadian Regulations	
Canadian DSL Inventory	All components listed on inventory or are exempt.
WHMIS Hazard Class	D2A Very Toxic Materials Crystalline silica

SECTION 16: OTHER INFORMATION

For Further Information or in an Emergency Contact:

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