

MATERIAL SAFETY DATA SHEET

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Date: 07/10/2014

Section 1 - Product Name

Material Name: Barium Sulfate

Synonyms: Sulfuric acid, barium salt; barytes; blanc fixed; barite

CAS No.: 7727-43-7

EINECS EC Number: 231-784-4

Molecular Weight: 233.39

Chemical Formula: BaSO₄

Recommended usage: Widely used in such industries as paints, printing ink, coatings, plastics, rubber, chips, friction plate, ceramics, glass, electronics, cosmetics, pharmacy and food etc.

Suppliers: As per letterhead.

Section 2 - Composition and Information On Ingredients

Ingredient: Barium Sulfate or Barium Sulphate

CAS No.: 7727-43-7

EINECS EC Number: 231-784-4

Percent: 97 - 100%

Section 3 - Hazards Identification

GHS, Globally Harmonized System Classification in accordance with 29 CFR 1910
Classification according to Regulation (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

Labeling according to GHS & Regulation (EC) No 1272/2008.

GHS Label Elements: NONE

Signal Word: None

Hazards not otherwise classified (HNOC):

May causes mild skin irritation.

May causes mild eye irritation.

Precautionary statements:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P262: Do not get in eyes, on skin, or on clothing.

P281: Use personal protective equipment as required.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists get medical advice/attention.

Section 4 - First Aid Measures

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

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention if irritation occurs.

Section 5 - Fire Fighting Measures

Fire: Barium Sulfate or Barium Sulphate is not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Section 6 - Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7 - Handling and Storage

Keep Barium Sulfate or Barium Sulphate in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Containers of Barium Sulfate or Barium Sulphate may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 8 - Exposure Control/Personal Protection

Airborne Exposure Limits:

-OSHA Permissible Exposure Limit (PEL): 15 mg/m³ total dust, 5 mg/m³ respirable dust

-ACGIH Threshold Limit Value (TLV): 10 mg/m³ (TWA)

Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded and engineering controls are not feasible, a half face piece particulate respirator (NIOSH type N95 or better filters) 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.. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If

oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator.

WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Section 9 - Physical and Chemical Properties

Appearance: Barium Sulphate is Fine, white powder.

Odor: Odorless.

Solubility: Insoluble in water.

Specific Gravity: 4.5 @ 15 (59F)

pH: 5% in water is neutral to litmus.

% Volatile by volume @ 21C (70F): 0

Boiling Point: 1600C (2912F) Decomposes.

Melting Point: 1580C (2876F)

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: Barium Sulfate or Barium Sulphate is stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Burning may produce sulfur oxides.

Hazardous Polymerization: Will not occur.

Incompatibilities: Aluminum, phosphorus.

Conditions to Avoid: Dusting and incompatibles.

Section 11 - Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

Carcinogenic Effects: Not a reported carcinogen by IARC, NTP, ACGIH, OSHA.

Section 12 - Ecological Information

Environmental Fate: This material may bio accumulate to some extent.

Environmental Toxicity: No information found.

Section 13 - Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused Barium Sulfate or Barium Sulphate in accordance with legal requirements.

Section 14 - Transport Information

Not regulated by DOT USA, IATA, IDMG, ADR/RID.

Section 15 - Regulatory Information

USA:

SARA 311/312: Acute: Yes; Chronic: No Fire: No Pressure: No Reactivity: No (Pure / Solid)

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

WHMIS (Canada): Not controlled under WHMIS (Canada).

Section 16 - Other Information

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein; however, we makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.