

Humco Holding Group, Inc.
7400 Alumax Drive
Texarkana, TX 75501
800-662-3435

Item #0395-0200

BARIUM SULFATE

Date Prepared: 08/14/2007

SECTION 1 PRODUCT IDENTIFICATION

Product: Barium Sulfate

Synonyms: Sulfuric Acid, Barium Salt; Barytes; Blanc Fixe; barite

Chemical Formula: BaSO₄

CAS No.: 7727-43-7

Molecular Weight: 233.39

Emergency Telephone Numbers:

Humco Holding Group, Inc. 800-662-3435
Chemtec 800-424-9300

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #	Percent	Hazardous
Barium Sulfate	7727-43-7	97 – 100%	Yes

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

HAZARD RATING SYSTEMS: This information is for people trained in: National Fire Protection Association (NFPA 704) Identification of the Fire Hazards of Materials

	NFPA 704	KEY	
Health		1	4 = Severe
Flammability		0	3 = Serious
Reactivity		0	2 = Moderate
			1 = Slight

Lab Protective Equipment: Goggles, lab coat, vent hood, proper gloves

Storage Color Code: Orange (general storage)

SECTION 3 HAZARDS IDENTIFICATION Cont'd

Potential Health Effects

Inhalation: Not expected to be a health hazard.

Ingestion: Not expected to be a health hazard.

Skin Contact: No adverse affects expected.

Eye Contact: No adverse effects expected but dust may cause mechanical irritation.

Chronic Exposure: Long term inhalation of dust may lead to deposition in lungs in sufficient quantities to produce baritosis – a benign pneumoconiosis. This produces a radiological picture even though symptoms and abnormal signs may not be present.

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

SECTION 5 FIRE FIGHTING MEASURES

Fire: 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 facepiece operated in the pressure demand or other positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. **Spills:** Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

SECTION 7 HANDLING & STORAGE

Keep 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 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): 15mg/m³ total dust, 5 mg/m³ respirable dust
- ACGIH Threshold Limit Value (TLV): 10mg/m³ total dust containing no asbestos & <1% crystalline silica

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, 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. A full facepiece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece 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 & CHEMICAL PROPERTIES

Appearance: Fine, white powder. Boiling Point: 1600°C (2912°F) (decomposes)
Odor: Odorless. Melting Point: 1580°C (2876°F)
Solubility: Insoluble in water. Vapor Density (Air=1): No information found.
Specific Gravity: 4.5 @ 15°C (59°F) Vapor Pressure (mmHg): No information found.
pH: 5% in water is neutral to litmus. Evaporation Rate (BuAc=1): No information found.
% Volatiles by Volume @ 21°C (70°F): 0

SECTION 10 STABILITY & REACTIVITY

Stability: Stable under ordinary conditions of use & 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.

Table with 4 columns: Ingredient, NTP Carcinogen (Known, Anticipated), and IARC Category. Row 1: Barium Sulfate (7727-43-7), No, No, None

SECTION 12 ECOLOGICAL INFORMATION

Environmental Fate: This material may bioaccumulate 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 facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. 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 contents in accordance with federal, state, and local requirements.

SECTION 14 TRANSPORT INFORMATION

Not Regulated

SECTION 15 REGULATORY INFORMATION

Chemical Inventory Status – Part 1

<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>	<u>Japan</u>	<u>Australia</u>
Barium Sulfate (7727-43-7)	Yes	NE*	Yes	Yes

Chemical Inventory Status – Part 2

<u>Ingredient</u>	<u>Korea</u>	<u>Canada</u> <u>DSL</u>	<u>NDSL</u>	<u>Phil.</u>
Barium Sulfate (7727-43-7)	Yes	Yes	No	Yes

*NE – Not Evaluated

Federal, State & International Regulations – Part 1

<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>	
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Chemical Catg.</u>
Barium Sulfate (7727-43-7)	No	No	No	No

Federal, State & International Regulations – Part 2

<u>Ingredient</u>	<u>CERCLA</u>	<u>RCRA</u> <u>261.33</u>	<u>TSCA</u> <u>8 (d)</u>
Barium Sulfate (7727-43-7)	No	No	No

Chemical Weapons Convention: No **TSCA 12 (b):** No **CDTA:** No

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

SECTION 15 REGULATORY INFORMATION Cont'd

Australian Hazchem Code: No information found.

Poison Schedule: No information found.

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

SECTION 16 OTHER INFORMATION

NFPA Ratings:

Health	0
Flammability	0
Reactivity	0

Label Hazard Warning: As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Label Precautions: None

Label First Aid: Not applicable.

Product Use: Laboratory Reagent