

SAFETY DATA SHEETS

This SDS packet was issued with item:

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N/A

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

Chemtrec 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 6ACCIDENTAL 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.

Ingredient	NTP Carcinogen		IARC Category
	Known	Anticipated	
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.

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.

TRANSPORT INFORMATION

Not Regulated

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>	Canada		
		<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

SARA 302			SARA 313	
<u>Ingredient</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>TSCA</u>
Barium Sulfate (7727-43-7)	No	<u>261.33</u> No	<u>8 (d)</u> 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

SAFETY DATA SHEET



Humco Holding Group, Inc.
7400 Alumax Dr
Texarkana TX 75501 USA
800-662-3435
cs@humco.com
www.humco.com

24-Hour Emergency Number (CHEMTREC)
USA- 800-424-9300
International – 703-527-3887

All non-emergency calls should be directed to
Customer Service at 800-662-3435

NAME: BARIUM SULFATE

SDS NO. 0200

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Barium Sulfate

Synonyms: None

Recommended Use: Diagnostic aid

Manufacturer by: Humco Holding Group, Inc.

7400 Alumax Dr
Texarkana TX 75501 USA
800-662-3435
cs@humco.com
www.humco.com

24-Hour Emergency Number (CHEMTREC)

USA- 800-424-9300

International – 703-527-3887

All non-emergency calls should be directed to Customer Service at 800-662-3435

2. HAZARD IDENTIFICATION

Pictogram:	None required
Classification:	Not Classified
Signal Word:	None required
Hazard Statements:	None required

3. COMPOSITION / INGREDIENTS

CHEMICAL NAME	CAS#
BARIUM SULFATE	7727-43-7

The exact percentage has been withheld as a trade secret

4. FIRST-AID MEASURES

ROUTE	COMMON SYMPTOMS	FIRST AID
Inhalation	Dizziness, trouble breathing	Remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	None expected	Do not induce vomiting. If material is swallowed, get medical attention or advice
Skin	Dermal dryness or mild irritation	If irritation occurs, wash with soap and water. If irritation persists, get medical attention.
Eyes	Mechanical Irritation	Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, get medical attention.

5. FIRE-FIGHTING MEASURES

Flash Point:	Not determined
Auto Ignition:	Not determined
Extinguishing Media:	Not ready combustible. Select extinguishing agent appropriate to other materials involved.
Products of Combustion:	Not determined
Fire Fighting Equipment and Procedures:	Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Read entire label before using and follow all label directions.
Environmental Precautions:	Prevent discharge to open waters.
Method of Containment:	Mix spilled solid in suitable inert material such as clay, vermiculite or diatomaceous earth.
Method for Clean-Up:	Ventilate area of spill or leak. Sweep or scrap up and containerize in approved chemical waste container. Wash spill area with water.

7. HANDLING AND STORAGE

Handling:	Follow instructions in label for taking it internally.
Storage:	Keep from extreme heat. Keep container tightly closed and in a cool, well ventilated place.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls:	Normal room ventilation is usually adequate under normal use.
Personal Protective Equipment (PPE)	
Eye/Face Protection:	None needed under normal use.
Skin Protection:	None needed under normal use.
Respiratory Protection	None needed under normal use.
General Hygiene Considerations:	Wash hands after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White powder solid	Upper/Lower Flammability:	Not determined
Odor:	None	Vapor Pressure	Not determined
Odor Threshold:	Not determined	Vapor Density:	Not determined
pH:	Not determined	Relative Density:	4.2 to 4.5
Melting point /Freezing Point:	1580 C	Solubilities:	Insoluble in water
Boiling point/range:	Not determined	Partition coefficient: n-octanol/water:	Not determined
Flash point	Not determined	Auto-ignition temperature	Not determined
Evaporation rate	Not determined	Decomposition Temperature:	Not determined
Flammability:	Not flammable	Viscosity	Not determined

10. STABILITY AND RACTIVITY

Reactivity:	Not determined
Chemical Stability:	Stable under normal ambient temperatures (70°F)
Possibility of Hazardous reactions:	Not determined.
Conditions to Avoid:	Extreme heat
Incompatible materials:	Not determined
Hazardous Decomposition Products:	Not determined

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Not determined.
Skin irritation:	Not determined.
Eye contact damage:	Not determined.
Respiratory damage:	Not determined.
Ingestion overdose:	Not determined.

Delayed, immediate, or chronic effects from short- and long-term exposure	Not determined.
LD50	Not determined
Symptoms associated with exposure:	None expected: May cause skin irritation to sensitive people. Dust may causes mechanical eye irritation.
Carcinogenicity:	
OSHA:	Not listed
NTP:	Not listed
IARC:	Not listed

12. ECOLOGICAL INFORMATION

Acute or chronic aquatic toxicity:	Not determined.
Chemical degradation:	Not determined.
Biodegradation:	Not determined.
Bioaccumulation potential	Not determined.
Adsorption studies or leaching studies:	Not determined.
Other adverse effects	Not determined.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state and local laws and regulations. Avoid release into environment.

14. TRANSPORT INFORMATION

DOT Hazard Classification:	Non-Hazardous
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group number:	Not applicable
Environmental hazards:	Not applicable
Special precautions:	Read label for use instructions

15. REGULATORY INFORMATION

Not determined

16. OTHER INFORMATION

The information in this SDS is considered current and reliable. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal are beyond Humco's control, it is the responsibility of the user to determine safe conditions for use and to assume liability for loss, damage, or expenses arising from improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission. Various agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.