

## SAFETY DATA SHEET

**PRODUCT NAME: Barite**

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Barite  
CAS Number: 13462-86-7  
General Use: Filler / Extender  
Product Description: Natural Barium Sulfate, Flot Ore Concentrate, RAD BAN™

MANUFACTURER: NEW RIVERSIDE OCHRE COMPANY, INC.  
P.O. Box 460  
Cartersville, Georgia 30120

Contact: Customer Service  
Telephone: (770) 382-4568 or (800) 248-0176

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### 2. HAZARDS IDENTIFICATION

Component	Product Identifier	Physical	Health	Environmental
Quartz (SiO <sub>2</sub> )	(CAS No.) 14808-60-7	Not hazardous	Carcinogen Category 1A May cause respiratory irritation May cause silicosis (damage to lungs) with long term overexposure by inhalation May cause skin irritation Causes eye irritation	Not Hazardous

GHS / Hazcom 2012 Label:



Signal word (GHS-US):

Danger

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components present at levels >1% by weight are:

<u>Component</u>	<u>Typical Weight %</u>	<u>CAS Number</u>	<u>Mineral</u>
BaSO <sub>4</sub>	95 – 100	13462-86-7	barium sulfate
Fe <sub>2</sub> O <sub>3</sub>	0 – 3	1310-14-1	goethite
SiO <sub>2</sub>	3 – 6	14808-60-7	quartz

#### POTENTIAL HEALTH EFFECTS:

INHALATION: Inhalation of the dust may cause mechanical irritation to the respiratory tract. Excessive exposure above the TLV can give mild pulmonary irritation. Long-term overexposure to silica causes silicosis. IN ITS PURCHASED FORM, THIS PRODUCT CONTAINS LESS THAN 0.1% RESPIRABLE CRYSTALLINE SILICA; crystalline silica is listed as suspected human carcinogen by IARC.

EYE CONTACT: Will result in no specific effects other than general particulate irritation in the eye.

SKIN CONTACT: Not absorbed by the body. Skin contact may cause mechanical irritation due to abrasion.

INGESTION: Not absorbed by the body; large quantities may cause physical obstruction of the bowel.

CHRONIC: See INHALATION above.

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### 4. FIRST AID MEASURES

INHALATION: Remove victim from the area where TLV has been exceeded. If victim is not breathing, give artificial respiration. Call a physician. Remediate work area as described in Section 8.

EYE CONTACT: Flush eyes with large amounts of water for at least 15 minutes. If irritation persists, get medical attention.

SKIN CONTACT: Wash with soap and water.

INGESTION: If conscious, give large quantities of water to induce vomiting. Get medical attention.

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### 5. FIREFIGHTING MEASURES

FLASHPOINT: Non-flammable.

EXTINGUISHING MEDIA: As appropriate for surrounding combustibles. Product does not burn or support combustion. Not a fire or explosion hazard.

FIREFIGHTING EQUIPMENT: Respiratory and eye protection required for firefighting personnel.

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## 6. ACCIDENTAL RELEASE MEASURES

GENERAL: Barite is not a hazardous waste per 40CFR Part 261.24 or Part 261.3. Refer to local, State or Federal regulations for specific disposal information.

LAND SPILL: Vacuum or scoop up spilled material for recovery or disposal, avoid dusting conditions and use good ventilation. Wetting the spill area with water spray may help to keep airborne dust levels down.

WATER SPILL: Product is inert and stable. Decomposition and polymerization will not occur.

## 7. HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient.

STORAGE PRESSURE: Atmospheric.

CONDITIONS FOR STORAGE INCLUDING ANY INCOMPATIBILITIES: Maintain packaging intact until ready for use in a clean storage area. See Sections 8 and 10.

HYGIENE MEASURES: Handle in accordance with good industrial hygiene and safety procedures. Always wash hands immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke in areas where product is used.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Component	EXPOSURE LIMITS 8 Hrs. TWA		
	OSHA – PEL	OSHA-PEL	ACGIH-TLV
	RESPIRABLE DUST (TABLE Z-3)	TOTAL DUST (TABLE Z-3)	RESPIRABLE DUST (1997)
(Quartz) SiO <sub>2</sub>	10 mg/m <sup>3</sup>	30 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below recommended exposure limits. Provide mechanical ventilation of confined spaces.

PERSONAL PROTECTION:



EYE PROTECTION: Safety glasses or dust-tight goggles.

SKIN PROTECTION: Rubber, cloth or plastic gloves if appropriate for job conditions.

RESPIRATOR: If exposure limits are exceeded, an appropriate NIOSH dust respirator should be used.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity (Absolute):	4.4
Solubility in Water:	Insoluble
pH:	7
Mohs Hardness:	3 – 3.5
Odor:	None
Volatility:	Non-Volatile
Appearance:	Off-White Powder

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## 10. STABILITY AND REACTIVITY

GENERAL: This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: Violently explosive with powdered aluminum. Ignites with phosphorus when primed with potassium nitrate – calcium silicide.

HAZARDOUS DECOMPOSITION: None known.

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## 11. TOXICOLOGICAL INFORMATION

Barium Sulfate is not known to cause cancer, developmental toxicity, reproductive toxicity, neurotoxicity, genetic mutations or other chronic health effects.

Information on Toxicological Effects

POTENTIAL HEALTH EFFECTS:

INHALATION: Inhalation of the dust may cause mechanical irritation to the respiratory tract. Excessive exposure above the TLV can give mild pulmonary irritation. Long term overexposure to silica causes silicosis. This product is considered a carcinogen by IARC because it contains crystalline silica at levels greater than 0.1%.

EYE CONTACT: Will result in no specific effects other than general particulate irritation in the eye.

SKIN CONTACT: Not absorbed by the body. Skin contact may cause mechanical irritation due to abrasion.

INGESTION: Not absorbed by the body.

CHRONIC: See INHALATION above.

SIGNS AND SYMPTOMS OF EXPOSURE: Exposure to dust may cause mucous membrane and respiratory irritation, cough, sore throat, nasal congestion, sneezing and shortness of breath. However, there may be no immediate signs or symptoms of exposure to hazardous concentrations of respirable crystalline silica (quartz). See **Long-Term Overexposure** below for symptoms of silicosis. The absence of symptoms is not necessarily indicative of safe conditions.

ACUTE TOXICITY VALUES: **Silica:** LD50 oral rat > 22,500 mg/kg  
Iron Oxide LD 50 oral rat > 15,000 mg/kg

LONG-TERM OVEREXPOSURE: See Section 2.

CARCINOGENICITY:

Component	Product Identifier	IARC	National Toxicity Program (NTP) Status
Quartz (SiO <sub>2</sub> ) 3 – 6%	(CAS No.) 14808-60-7	Group 1	Known Human Carcinogen

**12. ECOLOGICAL INFORMATION**

Barium Sulfate is insoluble, inert and non-toxic. No recognized unusual toxicity to plants or animals.

**13. DISPOSAL CONSIDERATIONS**

Barite is not considered a hazardous substance by RCRA criteria. Waste material can be landfilled or sewerred. See sections 6 and 15.

**14. TRANSPORT INFORMATION**

Not regulated; DOT label not required.

**15. REGULATORY INFORMATION**

TSCA ..... None  
 CERCLA Reportable Quantity ..... None  
 SARA Title III  
     Section 304, Extremely Hazardous Substances ..... None  
     Section 311 / 312, Hazard Categories ..... Acute Hazard  
     Section 313, Toxics Release Inventory ..... Not Listed  
 RCRA Status ..... Not a Hazardous Waste

DISPOSAL: See section 6 of this SDS. Barium Sulfate is not a hazardous waste per 40 CFR Part 261.24 or Part 261.3. However, the user should consult with the State environmental regulatory agency before disposing of this material.

SPILL REPORTING: See section 6 of this SDS.

**16. OTHER INFORMATION**

NFPA Hazard Rating:   Health: 1           Fire: 0           Reactivity: 0

HMIS Hazard Rating:   Health: \*           Fire: 0           Physical: 0

\*Warning – Long-Term Overexposure – inhalation of dust containing silica (quartz) may cause silicosis. See sections 3, 8 and 11.

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