

# MATERIAL SAFETY DATA SHEET

Product Name: ANCO BAR (BARITE)

Anchor Drilling Fluids USA, Inc.  
2431 E 61<sup>ST</sup> Street, Suite 710, Tulsa, OK 74136

Run Date: 5/31/06

Rev. Date: 1/4/2008

## I. GENERAL INFORMATION

Chemical Name: BARIUM SULFATE CAS#: 7727-43-7  
Chemical Family: BARYTES  
Chemical Formula: BAS04  
Synonyms: BAR  
NFPA Properties: Health: 1 Flammability: 0 Reactivity: 0  
Emergency Telephone: CHEMTREC (800) 424-9300 Information Telephone: (918) 583-7701

## II. HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous Components	TWAPPM	TWA MG/M <sup>3</sup>	STEL PPM	STEL MG/M <sup>3</sup>	CAS#	OTHER LIMITS	%
1. BARIUM SULFATE		10		0.1			
2. KAOLIN				0.1	1332-58-7		0-5
3. QUARTZ				0.1	14808-60-7		0-3

## III. PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point °F: N/A Color: WHITE TO GRAY  
Specific Gravity: 4.3 Odor: NONE  
Vapor Pressure: N/A Appearance: POWDER  
Percent Volatility: N/A pH: NDA  
Vapor Density: N/A Viscosity: N/A  
Evaporation Rate: N/A Activity: INERT  
Solubility in Water: INSOLUBLE LC50: NDA  
Melting Point °F: 2876 LD50: NDA

## IV. FIRE & EXPLOSION HAZARD DATA

Extinguishing Agents: N/A  
Flash Point °F: NONE  
Flammable Limits: N/A LEL: N/A UEL: N/A  
Special Firefighting Procedures: N/A

Unusual Fire & Explosion Hazards: CONTACT WITH POWDERED ALUMINUM OR MAGNESIUM MAY PROVE EXPLOSIVE. CONTACT WITH PHOSPHOROUS WITH POTASSIUM HITRATE-CALCIUM SILICIDE MAY IGNITE.

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## V. HEALTH HAZARD DATA

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Routes of Entry:      Inhalation – YES                      Skin – YES                      Ingestion – YES

Effects of Overexposure:      DIRECT CONTACT WITH SKIN MAY CAUSE DRYNESS AND ITCHING. REPEATED INHALATION MAY CAUSE DELAYED LUNG INJURY. MAY CAUSE MECHANICAL IRRITATION TO THE NOSE, THROAT, AND UPPER RESPIRATORY TRACT.

Toxicological Properties:      NDA

Chronic & Acute Effects of Overexposure: INHALATION OF BARIUM SULFATE MAY LEAD TO DEPOSITION IN THE LUNGS IN SUFFICIENT QUANTITIES TO PRODUCE BARITOSIS – A BENIGN PNEUMOCONIOSIS. ABNORMAL PHYSICAL SIGNS. DISSEMINATED NODULAR OPACITIES THROUGHOUT BOTH LUNGS ARE DETECTABLE BY X-RAYS; THESE ARE DISCRETE BUT SOMETIMES OVERLAP.

Carcinogenicity:      NTP – NO                      IARC Monographs – NO                      OSHA Regulated – YES

### Emergency First Aid Procedures:

- Eyes:              FLUSH WITH PLENTY OF WATER. IF IRRITATION DEVELOPS, CALL A PHYSICIAN
- Skin Contact:      WASH AREA WITH SOAP AND WATER. APPLY SKIN MOISTURIZER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
- Inhalation:        REMOVE FROM EXPOSURE. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.
- Ingestion:         TREAT SYMPTOMATICALLY. IF SYMPTOMS PERSIST, CONSULT A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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## VI. REACTIVITY DATA

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Stability:              STABLE                      Hazardous Polymerization:      WILL NOT OCCUR

Hazardous Decomposition Products:      THERMAL DECOMPOSITION MAY PRODUCE TOXIC OXIDES OF SULFUR AND BARIUM.

Conditions To Avoid:      CONTACT WITH ALUMINUM OR MAGNESIUM MAY PROVE EXPLOSIVE. CONTACT WITH PHOSPHOROUS WITH POTASSIUM NITRATE-CALCIUM SILICIDE MAY IGNITE.

Incompatibility and Materials to Avoid:      POWDERED ALUMINUM OR MAGNESIUM. PHOSPHOROUS WITH POTASSIUM NITRATE-CALCIUM SILICIDE.

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## VII. PRECAUTIONS FOR SAFE HANDLING AND USE

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<u>Steps To Be Taken In Case Material Is Released Or Spilled – Procedures For Clean-Up:</u>	SWEEP UP SPILL MATERIAL AND REPACKAGE
<u>Waste Disposal Method:</u>	DISPOSE OF IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS
<u>Precautions To Be Taken In Handling &amp; Storage:</u>	CONTAINERS SHOULD BE SEALED TO PREVENT DUSTING

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## VIII. CONTROL MEASURES

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Ventilation Type Required: LOCAL AND MECHANICAL EXHAUST AS APPROPRIATE  
Protective Gloves: COTTON GLOVES RECOMMENDED  
Eye Protection: SAFETY GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS  
Respiratory Protection: WEAR A NIOSH APPROVED MASK IF CONCENTRATION IS TO EXCEED TLV  
Other Protective Equipment: NONE

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## IX. REGULATORY & TRANSPORTATION INFORMATION

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US DOT Proper Shipping Name: "OIL WELL TREATING COMPOUND"  
US DOT Hazard Class: DOT ID Number: NOT REGULATED  
ID Number: Freight Classification:  
Unregulated by DOT: Regulated by DOT:  
Special Transportation Note:  
Labels Required:

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