

MATERIAL SAFETY DATA SHEET

Product Name: ANCO PHALT S

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

Run Date: 12/22/94

Rev. Date 5/01/06

I. GENERAL INFORMATION

Chemical Name: SULFONATED ASPHALT
Chemical Family: ASPHALT
Chemical Formula: PROPRIETARY
NFPA Properties: Health: NDA Flammability: NDA Reactivity: NDA
Emergency Telephone: CHEMTREC (800) 424-9300 Information Telephone: (918) 583-7701

II. HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

| Hazardous Components | OSHA PEL | ACGIH | CAS# | % |
|----------------------|----------|-------|------|---|
|----------------------|----------|-------|------|---|

This product does not meet the definition of a hazardous chemical given in 29 CFR Part 1910.1200 (OSHA).

III. PHYSICAL / CHEMICAL CHARACTERISTICS

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|----------------------|-------------|-------------|-------------------|
| Boiling Point °F: | N/A | Appearance: | DARK BROWN POWDER |
| Specific Gravity: | .98 | Odor: | MILD |
| Vapor Pressure: | N/A | Form: | POWDER |
| Percent Volatility: | N/A | pH (1%): | 9.5 - 10.0 |
| Vapor Density: | N/A | Viscosity: | N/A |
| Evaporation Rate: | N/A | Activity: | N/A |
| Solubility in Water: | DISPERSIBLE | LC50: | NDA |
| Melting Point °F: | > 500 ° F | LD50: | NDA |

IV. FIRE & EXPLOSION HAZARD DATA

Extinguishing Agents: DRY CHEMICAL, WATER SPRAY, WATER FOG, CO2, FOAM, SAND & EARTH
Flash Point °F: >200°F
Flammable Limits: NOT FLAMMABLE LEL: N/A UEL: N/A
Special Firefighting Procedures: FIREFIGHTERS SHOULD WEAR NORMAL PROTECTIVE EQUIPMENT, INCLUDING A SELF CONTAINED BREATHING APPARATUS. BECOMES SLIPPERY WHEN WET.
Unusual Fire & Explosion Hazards: FLAMMABLE SOLIDS MAY PROVIDE CONDITIONS FOR A DUST EXPLOSION.

V. HEALTH HAZARD DATA

Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES
Effects of Overexposure: EYES & SKIN IRRITANT; RESPIRATORY IRRITANT IF INHALED; MAY CAUSE GASTROINTESTINAL UPSET IF INGESTED.
Toxicological Properties: NONE KNOWN.
Chronic & Acute Effects of Overexposure:
Carcinogenicity: NTP – NO IARC Monographs – NO OSHA Regulated –

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Emergency First Aid Procedures:

NON-TOXIC. AVOID DUST IN ENCLOSED AREAS.

Eyes: FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES AND SEEK MEDICAL ATTENTION.
Skin Contact: WASH THOROUGHLY WITH SOAP AND WATER. REMOVE AND LAUNDRER CONTAMINATED CLOTHING. IF IRRITATION DEVELOPS, SEEK MEDICAL ATTENTION.
Inhalation: REMOVE FROM EXPOSURE. IF ILLNESS OR ADVERSE SYMPTOMS DEVELOP, SEE PHYSICIAN.
Ingestion: GIVE AT LEAST TWO GLASSES OF WATER TO DILUTE AND SEEK MEDICAL ATTENTION.

VI. REACTIVITY DATA

Stability: STABLE (under normal conditions)
Hazardous Polymerization: WILL NOT OCCUR
Hazardous Decomposition Products: AMMONIA, CARBON MONOXIDE, and CARBON DIOXIDE
Conditions to Avoid: NONE.
Incompatibility and Materials to Avoid: STRONG OXIDIZING AGENTS

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> | ABSORB WITH AN INERT MATERIAL SUCH AS SOIL, SAND OR CLAY, AND SCOOP INTO LEAK-PROOF CONTAINERS. SLIPPERY WHEN WET. USE CAUTION TO AVOID FALLS. |
| <u>Waste Disposal Method:</u> | DISPOSE OF IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS. |
| <u>Precautions To Be Taken In Handling & Storage:</u> | STORE BETWEEN 40 ° F AND 120 ° F. |
| <u>Other Precautions</u> | NONE. |

VIII. CONTROL MEASURES

Ventilation Type Required: MECHANICAL EXHAUST
Protective Gloves: RECOMMENDED
Eye Protection: SAFETY GOGGLES WITH SHIELDS RECOMMENDED FOR PROLONGED
EXPOSURE.
Respiratory Protection: IF POWDER, WEAR A NIOSH APPROVED DUST MASK
Other Protective Equipment: NEOPRENE PROTECTIVE-TYPE APRON. CLOTHING WHICH CONTACTS
SKIN SHOULD BE CHANGED DAILY.

IX. REGULATORY & TRANSPORTATION INFORMATION

US DOT Proper Shipping Name: OIL-WELL TREATING COMPOUND
US DOT Hazard Class: DOT ID Number: N/A
ID Number: Freight Classification
Unregulated by DOT: Regulated by DOT:
Special Transportation Note: Labels Required:

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