

MATERIAL SAFETY DATA SHEET

Product Name: ANCO MUL S

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

Run Date: 12/22/94

Rev. Date 05/01/06

I. GENERAL INFORMATION

Chemical Name: MIXTURE OF SURFACTANTS CAS#: NDA
Chemical Family: SURFACTANT
Chemical Formula: PROPRIETARY
Synonyms: N/A
NFPA Properties: Health: 1 Flammability: 2 Reactivity: 0
Emergency Telephone: CHEMTREC (800) 424-9300 Information Telephone: (918) 583-7701

II. HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous Components	TWAPPM	TWA MG/M ³	STEL PPM	STEL MG/M ³	CAS#	OTHER LIMITS	%
1. BUTANOL			50 PPM		71-36-3		5.5
2. PETROLEUM SOLVENT	550 PPM				64742-95-6		

III. PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point °F:	NDA	Color:	DARK AMBER
Specific Gravity:	0.98	Odor:	SOLVENT
Vapor Pressure:	5.5 MMHG @ 20C	Appearance:	LIQUID
Percent Volatility:	N/A	pH:	NDA
Vapor Density:	NDA	Viscosity:	>100 SUS @ 100F
Evaporation Rate:	N/A	Activity:	N/A
Solubility in Water:	NDA	LC50:	NDA
Melting Point °F:	NDA	LD50:	NDA

IV. FIRE & EXPLOSION HAZARD DATA

Extinguishing Agents: DRY CHEMICAL, WATER SPRAY, WATER FOG, CO2, FOAM, SAND & EARTH
Flash Point °F: 102°F
Flammable Limits: N/A LEL: N/A UEL: N/A
Special Firefighting Procedures: FIREFIGHTERS MUST BE EQUIPPED TO PREVENT BREATHING OF VAPORS OR PRODUCTS OF COMBUSTION. WEAR AN APPROVED SELF-CONTAINING BREATHING APPARATUS AND PROTECTIVE CLOTHING.
Unusual Fire & Explosion Hazards:

MATERIAL SAFETY DATA SHEET

Product Name: ANCO MUL S

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

Run Date: 12/22/94

Rev. Date 05/01/06

V. HEALTH HAZARD DATA

Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES
Effects of Overexposure: NONE.
Toxicological Properties: NDA
Chronic & Acute Effects of Overexposure:
Carcinogenicity: NTP – NO IARC Monographs – NO OSHA Regulated –

Emergency First Aid Procedures:

Eyes: IMMEDIATELY FLUSH EYES WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MNUTES AND CALL A PHYSICIAN.
Skin Contact: FLUSH EYES WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MNUTES
Inhalation: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN AND CALL A PHYSICIAN.
Ingestion: CONSULT A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

VI. REACTIVITY DATA

Stability: STABLE (under normal conditions)
Hazardous Polymerization: WILL NOT OCCUR
Hazardous Decomposition Products: AS WITH ANY ORGANIC MATERIAL, COMBUSTION WILL PRODUCE CARBON DIOXIDE (CO₂) AND PROBABLY CARBON MONOXIDE (CO). OXIDES OF NITROGEN.
Conditions to Avoid: SOURCES OF IGNITION
Incompatibility and Materials to Avoid: STRONG OXIDIZERS SUCH AS HYDROGEN PEROXIDE, BROMINE AND CHROMIC ACID.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE

<u>Steps To Be Taken In Case Material Is Released Or Spilled – Procedures For Clean-Up:</u>	ABSORB WITH AN INERT MATERIAL SUCH AS SAND, SOIL OR VERMICULITE; SWEEP UP AND DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
<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.

MATERIAL SAFETY DATA SHEET

Product Name: ANCO MUL S

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

Run Date: 12/22/94

Rev. Date 05/01/06

VIII. CONTROL MEASURES

Ventilation Type Required: MECHANICAL EXHAUST.
Protective Gloves: RUBBER OR PLASTIC, SOLVENT RESISTANT.
Eye Protection: CHEMICAL SAFETY GOGGLES.
Respiratory Protection: WEAR A NIOSH/OSHA APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE IF VAPOR CONCENTRATION EXCEEDS PERMISSIBLE EXPOSURE LIMIT.
Other Protective Equipment: NEOPRENE TYPE APRON.

IX. REGULATORY & TRANSPORTATION INFORMATION

US DOT Proper Shipping Name: OIL-WELL TREATING COMPOUND
US DOT Hazard Class: DOT ID Number: 1993
ID Number: Freight Classification
Unregulated by DOT: Regulated by DOT:
Special Transportation Note: Labels Required:

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, expressed or implied, and we assume no responsibility for any damage or expense.
