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MATERIAL SAFETY DATA SHEET

MSDS No. 12942

Trade Name: PLATINUM FOAM PLUS*

Revision Date: 11/24/2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: PLATINUM FOAM PLUS*
Chemical Family: Mixture
Product Use: Drilling fluid additive.

Supplied by: M-I L.L.C.
P.O. Box 42842
Houston, TX 77242
www.miswaco.com
Telephone Number: 281-561-1512
Emergency Telephone (24 hr.): 281-561-1600
Prepared by: Product Safety Group

Revision No. 0

HMIS Rating

Health: 2 Flammability: 2 Physical Hazard: 0 PPE: J

4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal Hazard. *Chronic effects - See Section 11. See Section 8 for Personal Protective Equipment recommendations.

2. HAZARDS IDENTIFICATION

Emergency Overview: Warning! Combustible liquid and vapor. May cause severe eye irritation. Prolonged contact may damage eye. May cause skin and respiratory tract irritation. May be harmful if absorbed through skin. Vapors or mists may cause central nervous system (CNS) effects if inhaled.

Canadian Classification:

UN PIN No: Not regulated. WHMIS Class: B3 D2B

Physical State: Liquid Color: Clear Odor: Mild Polyether

Potential Health Effects:

Acute Effects

Eye Contact: May cause severe eye irritation. Prolonged contact may damage eye.
Skin Contact: May be irritating to the skin. May be harmful if absorbed through skin. Prolonged or repeated contact may cause defatting of the skin and/or dermatitis (inflammation).
Inhalation: Vapors or mists may be irritating to the respiratory tract. Vapors or mists may cause central nervous system (CNS) effects if inhaled.
Ingestion: May cause gastric distress, nausea and vomiting if ingested. Aspiration can be a hazard if this material is swallowed.

Carcinogenicity & Chronic Effects: See Section 11 - Toxicological Information.

Routes of Exposure: Eyes. Dermal (skin) contact. Dermal (skin) absorption. Inhalation.

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Target Organs/Medical Conditions Aggravated by Overexposure: Eyes. Skin. Respiratory System. Central Nervous System (CNS). Kidney. Blood. Liver.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Wt. %	Comments:
Sodium salts		30 - 60	No comments.
2-Butoxyethanol	111-76-2	10 - 30	No comments.
Diethylene Glycol	111-46-6	5 - 10	No comments.

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes. Get medical attention if any discomfort continues.

Skin Contact: Wash skin thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if any discomfort continues.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting. Dilute with 2 - 3 glasses of water or milk, if conscious. Never give anything by mouth to an unconscious person. Get immediate medical attention.

General notes: Persons seeking medical attention should carry a copy of this MSDS with them.

Notes To Physician: Aspiration may cause severe lung damage. Evacuate stomach in a way which avoids aspiration.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: F (C): 142 F (61.1 C)
Flash Point Method: PMCC

Flammable Limits in Air - Lower (%): ND
Flammable Limits in Air - Upper (%): ND
Autoignition Temperature: F (C): ND
Flammability Class: IIIA
Other Flammable Properties: ND
Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Do not enter fire area without proper personal protective equipment, including NIOSH/MSHA approved self-contained breathing apparatus. Evacuate area and fight fire from a safe distance. Water spray may be used to keep fire-exposed containers cool. Keep water run off out of sewers and waterways. Note that flammable vapors may form an ignitable mixture with air. Vapors may travel considerable distances and flash back if ignited.

Hazardous Combustion Products: Oxides of Carbon. Sulfur. Peroxides. Ketones. Alcohols. Aldehydes. Ethers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment identified in Section 8.

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Spill Procedures: Evacuate surrounding area, if necessary. Keep personnel removed and upwind of spill. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Shut off leak if it can be done safely. Contain spilled material. Absorb in vermiculite, dry sand or earth. Place into containers for disposal. Use non-sparking or explosion proof means to transfer material to containers. Note that flammable/combustible vapors may form an ignitable mixture with air. Vapors may travel considerable distances from spill and flash back, if ignited.

Environmental Precautions: Do not allow to enter sewer or surface and subsurface waters. Waste must be disposed of in accordance with federal, state and local laws. In the U.S., for products with reportable quantity (RQ) components - if the RQ is exceeded, report to National Spill Response Office at 1 800 424 8802.

7. HANDLING AND STORAGE

Handling: Put on appropriate personal protective equipment. Avoid contact with skin and eyes. Avoid breathing vapors or spray mists. Use only in a well ventilated area. Ground and bond containers when transferring material. Wash thoroughly after handling.

Storage: Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits (TLV & PEL - 8H TWA):

Ingredient	CAS No.	Wt. %	ACGIH TLV	OSHA PEL	Other	Notes
Sodium salts		30 - 60	NA	NA	NA	None
2-Butoxyethanol	111-76-2	10 - 30	20 ppm	50 ppm	NA	(skin)
Diethylene Glycol	111-46-6	5 - 10	NA	NA	10 mg/m ³ AIHA WEEL TWA	None

Notes

(skin) Potential for cutaneous absorption.

Engineering Controls: Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

Personal Protection Equipment

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazards present and the risk of exposure to those hazards. The PPE recommendations below are based on our assessment of the chemical hazards associated with this product. The risk of exposure and need for respiratory protection will vary from workplace to workplace and should be assessed by the user.

Eye/Face Protection: Wear chemical safety goggles.

Skin Protection: Wear appropriate clothing to prevent repeated or prolonged skin contact. Butyl rubber.

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Respiratory Protection:

All respiratory protection equipment should be used within a comprehensive respiratory protection program that meets the requirements of 29 CFR 1910.134 (U.S. OSHA Respiratory Protection Standard) or local equivalent.

If exposed to airborne mist/aerosol of this product, use at least a NIOSH-approved N95 half-mask disposable or re-usable particulate respirator. In work environments containing oil mist/aerosol, use at least a NIOSH-approved P95 half-mask disposable or re-usable particulate respirator.

This product is a complex blend of ingredients. If exposed to vapors from this product use a NIOSH/MSHA-approved respirator with a Multi-Contaminant cartridge.

General Hygiene Considerations: Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded, if contaminated with product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Clear
Odor:	Mild Polyether
Physical State:	Liquid
pH:	6.5 - 8.5 @ 10% Aqueous Solution
Specific Gravity (H ₂ O = 1):	1.040
Solubility (Water):	Soluble
Flash Point: F (C):	142 F (61.1 C)
Melting/Freezing Point:	ND
Boiling Point:	ND
Vapor Pressure:	ND
Vapor Density (Air=1):	ND
Evaporation Rate:	ND
Odor Threshold(s):	ND

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable
Conditions to Avoid:	Keep away from heat, sparks and flame.
Materials to Avoid:	Oxidizers. Acids. Bases. Salts of bases. Aluminum. Copper. Galvanized iron and steel. Viton. Nitrile. Neoprene. Natural rubber.
Hazardous Decomposition Products:	For thermal decomposition products, see Section 5.
Hazardous Polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Component Toxicological Data: Any adverse component toxicological effects are listed below. If no effects are listed, no such data were found.

Ingredient	CAS No.	Acute Data
Sodium salts		Oral LD50: 2310 mg/kg (rat); Dermal LD50: 6300 mg/kg (rabbit)

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Ingredient	CAS No.	Acute Data
2-Butoxyethanol	111-76-2	Oral LD50: 470 - 917 mg/kg (rat), 1.4 g/kg (guinea pig) Dermal LD50: 220 - 400 mg/kg (rat), >2 g/kg (guinea pig) Inhalation LD50: 450 ppm/4H (rat), 290 mg/m ³ /7H (rat), >633 ppm/1H (guinea pig) Guinea pig acute data expected to be more relevant to humans. (Vendor MSDS)
Diethylene Glycol	111-46-6	Oral LDLo: 1.0 g/kg (human); Oral LD50: 12.5 g/kg (rat); Dermal LD50: 11.9 g/kg (rabbit)

Ingredient	Component Toxicological Summary
2-Butoxyethanol	<p>2-Butoxyethanol is acutely toxic to animals via skin absorption and inhalation. This toxicity is primarily due to the hemolytic effects (destruction of red blood cells) of a metabolite of 2BE (2-butoxy acetic acid). Based on human studies, man is much less susceptible to this acute toxic effect. (ACGIH)</p> <p>The National Toxicology Program (NTP, 1998) has conducted lifetime inhalation bioassays in rats and mice at concentrations up to 125 ppm and 250 ppm 2-butoxyethanol, respectively. NTP found no evidence of carcinogenic activity in male rats, equivocal (inconclusive) evidence in female rats based on adrenal tumors and some evidence in males and female mice based on liver and forestomach tumors. NTP concluded that the potential of 2-butoxyethanol to cause cancer in humans cannot be determined at this time. Inhalation of 2-butoxyethanol by pregnant rabbits caused some deaths at 200 ppm. No effects to the pregnant rabbits were noted at 100 ppm and below. In another inhalation study in pregnant rats, irritancy was noted in the rats and a related fetotoxicity was observed at 100 and 200 ppm. There were no effects observed at 50 ppm and below. Birth defects were not noted in either study. Exposure of rats by inhalation to 2-butoxyethanol caused hemolysis (destruction of red blood cells), blood in the urine and a slight increase in liver weight. Other species, including man, seem much less sensitive to the hemolytic effects. (Vendor MSDS)</p>
Diethylene Glycol	<p>This glycol caused kidney and liver toxicity in rats when fed orally for two years at 1% and 4% of the diet. (HSDB) Humans are more sensitive to this component than animals. The toxic dose for an adult human is estimated to be 3 - 4 ounces (1/2 cup). (Vendor MSDS) Teratogenicity (toxicity to the fetus) was evaluated in Dutch rabbits exposed to 0, 100, 250 and 450 ppm of this glycol by inhalation. Adverse effects were noted in the mother (decreased body weight and food consumption) and in the fetus at 100 and 450 ppm. (HSDB) Mice exposed to high concentrations of this glycol in drinking water showed some reproductive effects at levels that also caused reduced maternal weight. Developmental toxicity (decreased fetal weight, but no birth defects) was noted in pregnant mice exposed to levels that also caused maternal toxicity. (Vendor MSDS)</p>

Product Toxicological Information:

No toxicological data is available for this product.

12. ECOLOGICAL INFORMATION

Ingredient	CAS No.	Data
Sodium salts		EC50 48H: 4,140 - 4,950 ug/L (Ceriodaphnia dubia (water flea))

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12. ECOLOGICAL INFORMATION

2-Butoxyethanol	111-76-2	LC50 96H: 1490 mg/L (static) (Lepomis macrochirus) (bluegill); LC50 24H: 1650 mg/L (Carassius auratus) (goldfish); LC50 24H: 1720 mg/L (Daphnia magna) (water flea)
Diethylene Glycol	111-46-6	LC50 96H: 75,200 mg/l (fathead minnow); EC50 15M: 29,228 mg/l (Photobacterium phosphoreum); LC50 96H (static): 0.3 mg/l (water flea)

Product Ecotoxicity Data: Contact M-I Environmental Affairs Department for available product ecotoxicity data.

Biodegradation: ND

Bioaccumulation: ND

Octanol/Water Partition ND

Coefficient:

13. DISPOSAL CONSIDERATIONS

Waste Classification: ND

Waste Management: Under U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user to determine at the time of disposal, whether the product meets RCRA criteria for the hazardous waste. This is because product uses, transformations, mixtures, processes, etc., may render the resulting materials hazardous. Empty containers retain residues. All labeled precautions must be observed.

Disposal Method: Recover and reclaim or recycle, if practical. Should this product become a waste, dispose of in a permitted industrial landfill. Ensure that the containers are empty by the RCRA criteria prior to disposal in a permitted industrial landfill.

14. TRANSPORT INFORMATION

U.S. DOT

Shipping Description: Not regulated under TDG, IMDG, ICAO/IATA. Not regulated for U.S. ground transport in non-bulk containers (<119 gallons). When shipped in U.S. in bulk containers, Combustible liquid, n.o.s., (contains 2-butoxyethanol), NA1993, PG III

Packaging Authorizations: 49 CFR 173.150, 173.203, 173.241
Emergency Response Guide No.: 128

Canada TDG Shipping Description: Not regulated.
UN PIN No: Not regulated.

IMDG Shipping Description: Not regulated.

ICAO/IATA Shipping Description: Not regulated.

15. REGULATORY INFORMATION

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15. REGULATORY INFORMATION

U.S. Federal and State Regulations

SARA 311/312 Hazard Categories: Fire hazard. Immediate (acute) health hazard.

SARA 302/304, 313; CERCLA RQ, California Proposition 65: Note: If no components are listed below, this product is not subject to the referenced SARA and CERCLA regulations and is not known to contain a Proposition 65 listed chemical at a level that is expected to pose a significant risk under anticipated use conditions.

International Chemical Inventories

Australia AICS - Components are listed or exempt from listing.
Canada DSL - Components are listed or exempt from listing.
China Inventory - Components are listed or exempt from listing.
Japan METI ENCS - Components are listed or exempt from listing.
European Union EINECS/ELINCS - Components are listed or exempt from listing.
Korea TCCL ECL - Components are listed or exempt from listing.
New Zealand - Components are listed or exempt from listing.
Philippine PICCS - Components are listed or exempt from listing.
U.S. TSCA - Components are listed or exempt from listing.
U.S. TSCA - No components are subject to TSCA 12(b) export notification requirements.

Canadian Classification:

Controlled Products Regulations Statement: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Class: B3 D2B

16. OTHER INFORMATION

The following sections have been revised: New issue

NA - Not Applicable, ND - Not Determined.

Disclaimer:

MSDS furnished independent of product sale. While every effort has been made to accurately describe this product, some of the data are obtained from sources beyond our direct supervision. We can not make any assertions as to its reliability or completeness; therefore, user may rely on it only at user's risk. We have made no effort to censor or conceal deleterious aspects of this product. Since we cannot anticipate or control the conditions under which this information and product may be used, we make no guarantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding use and disposal of this product. Additional information will be furnished upon request to assist the user; however, no warranty, either expressed or implied, nor liability of any nature with respect to this product or to the data herein is made or incurred hereunder.