

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TRAMFLOC® 310

DATE ISSUED: 02/01/12

SUPERSEDES: 01/08/99

CHEMICAL FAMILY: Cationic Polyacrylamide Emulsion for drilling fluid drag reduction for low pH water.

DESCRIPTION: White liquid. Slight, mild odor.

COMPANY IDENTIFICATION:

Tramfloc, Inc.

P.O. Box 350

Tempe, AZ 85280-0350

480-491-6895

EMERGENCY TELEPHONE: 24 hours a day, 7 days a week

CHEMTREC 800-424-9200

SECTION 2 - COMPOSITION/INFORMATION on INGREDIENTS

CHEMICAL NAME	CAS NUMBER
Polyacrylamide	69418-26-4
Mineral Oil	64742-30-9

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW - Viscous liquid with slight, mild odor. Spills are very slippery. Avoid contact with skin eyes and clothing. Contact with eyes may produce irritation and/or redness. Inhalation of mist may cause respiratory irritation. Wear impervious gloves when handling. Do not take internally.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Prolonged or repeated eye contact may cause irritation and/or redness.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Prolonged or repeated skin contact may cause irritation.

EFFECTS OF OVEREXPOSURE - INHALATION: May cause respiratory irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Not available.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH; PRIMARY ROUTE OF ENTRY- Eyes; Inhalation.

SECTION 4 - FIRST AID MEASURES

INHALATION: Remove patient to fresh air. If symptoms persist, consult a physician.

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SKIN: Flush immediately with soap and water for at least 15 minutes. Remove contaminated clothing and launder before reuse.

EYE CONTACT: Flush with water at least 15 minutes with eyelids open. Call a physician.

INGESTION: If swallowed, do not induce vomiting. Give victim a glass of water. Consult a physician. Never give anything by mouth to an unconscious person

SECTION 5 - FIRE-FIGHTING MEASURES

FLASHPOINT: >200⁰F; FLAMMABILITY: None; AUTO FLAMMABILITY: None

EXPLOSION HAZARD: None. EXPLOSIVE LIMITS: LOWER: ND; UPPER: ND

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical or foam to extinguish.

EXTINGUISHING MEDIA WHICH MUST NOT BE USED: Care must be taken when using water, as spilled product is extremely slippery when wet.

SPECIAL EXPOSURE HAZARDS IN A FIRE: In a fire situation, may liberate oxides of nitrogen or carbon, and hydrogen chloride. Keep containers cool by spraying with water if exposed to fire.

SPECIAL PROTECTIVE EQUIPMENT FOR A FIRE: Self-contained breathing apparatus should be worn.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS: Avoid runoff into storm sewers and ditches which lead to waterways. Dike area to control runoff and collect spill in appropriate containers. Remove all ignition sources.

METHODS FOR CLEANUP: Spills of this product are slippery. Absorb wet product on vermiculite or other inert material. Then water wash to waste treatment area to eliminate slip hazard of this material.

OTHER INSTRUCTIONS: Dispose of solidified material in accordance with federal, state, local or other applicable laws and regulations.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Avoid contact with eyes, skin and clothing. Wear impervious gloves.

STORAGE: Avoid extremes of temperature, wet, damp or humid conditions and open systems to minimize vapor release and exposure.

SECTION 8 - EXPOSURE CONTROLS and PERSONAL PROTECTION

ENGINEERING CONTROLS: General ventilation, eyewash and safety showers are recommended.

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EXPOSURE GUIDELINES: No MAC values have been established.

PERSONAL PROTECTIVE EQUIPMENT: See below

RESPIRATORY PROTECTION: Respiratory protection is not normally needed since volatility and toxicity are low. If significant vapors, mists, or aerosols are present, use NIOSH approved respirator (ANSI Z 882.1980) or equivalent.

HAND PROTECTION: Wear impervious gloves. EYE PROTECTION: Wear chemical splash goggles.

SKIN PROTECTION: Wear face mask and if clothing is contaminated, wash skin and launder clothing.

NOTE: Before eating, drinking or smoking, wash face and hands thoroughly with soap and water.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE, COLOR AND ODOR: White or off-white liquid. Slight mild odor.

pH as is: NA; MELTING POINT/RANGE: NA; SPECIFIC GRAVITY: 1.07-1.09

WATER SOLUBILITY: Completely soluble

SECTION 10 - STABILITY and REACTIVITY

CHEMICAL STABILITY: Stable; CONDITIONS TO AVOID: None.

MATERIALS TO AVOID: Strong oxidants such as liquid chlorine, enriched gaseous or liquid oxygen and sodium or calcium hypochlorite.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen ammonia and/or hydrogen chloride. Vapor may be irritating or harmful.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

IRRITANCY and CORROSIVENESS: May be irritating to skin and eyes on prolonged exposure. No evidence of corrosiveness.

SENSITIZATION: None known.

SUBACUTE, SUBCHRONIC AND PROLONGED TOXICITY: No information available.

EMPIRICAL DATA ON EFFECTS ON HUMANS: Considered non toxic in normal use.

SECTION 12 - ECOLOGICAL INFORMATION

AQUATIC TOXICITY: This product, or a similar product is toxic to fish. LC50 (Rainbow Trout) is

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between 1 to 10 ppm.

OTHER INFORMATION - Discharge of this product must be in accordance with all federal, state, local or other applicable laws and regulations.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Recycle if possible. If not, absorb spilled material on inert absorbent and dispose of solidified material in accordance with federal, state, local or other applicable laws and regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Non-Hazardous, Non-Regulated

SECTION 15 - REGULATORY INFORMATION

U. S. FEDERAL REGULATIONS: Not a DOT/IM0 Hazardous Material.

CERCLA-SARA Hazard Category: No SARA Section 313 components exist in this product.

EEC EINECS: All components of this, product are included on the European Inventory of Existing Chemical Substances (EINECS) in compliance with Council Directive 67/548/EEC as amended.

US TSCA: This product is manufactured in compliance with all provisions of the Toxic Substances Control Act 15 U.&C.

CANADA DSL: Components of this product have been reported to Environment Canada in accordance with subsection 2.5 of the Canadian Environmental Protection Act and are included on the Domestic Substances List.

SECTION 16 - OTHER INFORMATION

HMIS RATINGS: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0 PROTECTION: F

The information contained herein is to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, Tramfloc, Inc. makes no guarantee for results obtained, and assumes no responsibility for damages incurred by use of this product. It is the responsibility of the user to comply with all federal, state and local laws and regulations.