



MATERIAL SAFETY DATA SHEET

MSDS # TF6

ARCTIC FIRE TO-4 / C-4 FLUID 10W, 30W, 50W

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: TO-4 / C-4 Fluid 10W, 30W, 50W

PRODUCT CODE: 531-000, 532-000, 533-000

SYNONYMS: Hydrocarbon Mixture, Universal Tractor Hydraulic

EMERGENCY PHONE: CHEMTREC – (800) 424-9300 or (703) 527-3887 (collect)

SUPPLIER: Sinclair Oil Corporation
P.O. Box 30825
Salt Lake City, Utah 84130

TELEPHONE / FAX: (888) 340-3466 / (801) 524-2740

2. COMPOSITION, INFORMATION ON INGREDIENTS

This product contains no hazardous materials as defined by 29 CFR 1910.1200

3. HAZARDS IDENTIFICATION

APPEARANCE: Tan

PHYSICAL STATE: liquid

ODOR: Slight petroleum odor

EMERGENCY OVERVIEW: Prolonged or repeated skin contact may cause irritation. Avoid breathing oil mist while handling.

INHALATION: Exposure to vapors or mists of this oil may cause respiratory irritation, dizziness and nausea. prolonged overexposure to vapors or mists may produce chemical pneumonitis.

EYE CONTACT: Short-term liquid or vapor contact may result in slight eye irritation

SKIN CONTACT: Prolonged or repeated liquid contact can cause drying of the skin.

INGESTION: Can cause discomfort

CHRONIC: Prolonged and/or frequent contact may cause drying, cracking (dermatitis) or folliculitis.

CARCINOGENICITY: Not listed as carcinogenic with IARC, OSHA, or NTP

4. FIRST AID MEASURES

INHALATION: Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor of hot product, immediately remove from source of exposure. Get medical attention if any discomfort continues. For breathing difficulties oxygen may be necessary.

EYE CONTACT: Flush immediately with water for at least 15 minutes. If symptoms or irritation persist seek medical attention promptly.

SKIN CONTACT: Wash contact areas with soap and water. Launder contaminated clothing before reuse.

INGESTION: DO NOT INDUCE VOMITING! Remove victim immediately from source of exposure. Get medical attention immediately! Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLASH POINT: >350°F

FLAMMABLE LIMITS: Not Determined

AUTOIGNITION TEMPERATURE: NA

FLAMMABILITY CLASSIFICATION: NFPA Flammability =1

FIRE FIGHTING INSTRUCTIONS: Special Fire Fighting Procedure: Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply from fire. Avoid spraying water directly into storage containers due to danger of boil over. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved shelf-contained breathing apparatus.

COMBUSTIBLE LIQUID: Can form combustible mixtures at temperatures at or above the flashpoint.

UNUSUAL FIRE OR EXPLOSION HAZARD: Water may cause frothing Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.

FIRE FIGHTING MEDIA: CO₂, dry chemical, foam, water fog, (water may cause frothing)

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, calcium, magnesium, zinc, phosphorous, sulfur, hydrogen sulfide

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:

- Remove sources of heat or ignition.
- Provide adequate ventilation.
- Remove contaminated clothing.
- Wash affected skin areas with soap and water

-Small Spills: Take up with noncombustible absorbent such as fullers earth or sand. Place into containers for later disposal.

-Large Spills: Contain spill in earthen dikes for later recover. Control ignition sources around spill area. Report spills as required to appropriate authorities. Report spill to Coast Guard toll free number (800) 424-8802 for spills that could reach any waterway including intermittent dry creeks. In case of accident or road spill notify Sinclair Oil Corporation at (888) 340-3466 or Chemtrec Emergency Spill (800) 365-7300

7. HANDLING AND STORAGE

STORAGE / HANDLING: Comply with all applicable OSHA, NFPA and consistent local requirements. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not pressurize or expose to heat or open flame, strong oxidizers or other sources of ignition. Avoid repeated or prolonged skin contact. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water.

8. EXPOSURE CONTROLS, RESPIRATORY & PERSONAL PROTECTION

ENGINEERING CONTROLS: Local or general exhaust required when using at elevated temperatures that generate vapors or mists. Use in well-ventilated confined spaces, mechanical ventilation may be required to keep levels of certain components below mandated standards. Responsible individuals should evaluate the concentrations of specific regulated chemicals.

PERSONAL PROTECTION:

PROTECTIVE CLOTHING: Wear body-covering work clothes to avoid prolonged or repeated exposure. Launder soiled work clothes before reuse. Safety goggles, or chemical splash goggles if splashing is anticipated. Wear oil impervious gloves such as neoprene, nitrile or PVA if frequent or prolonged contact is expected.

RESPIRATOR: Not normally required for routine operations. Approved cartridge or supplied air respirators should be worn when excessive vapors or mists are generated. Observe respirator protection factor criteria cited in ANSI Z88.2. Self-contained breathing apparatus should be used for fire fighting.

OCUPATIONAL EXPOSURE LIMITS

COMPONENT	LIMIT	TWA	STEL	CEILING	NOTATION	OTHER
Oil mist	OSHA PEL	5mg/M ³				
Oil mist	ACGIH TLV	5mg/M ³	10mg/M ³			

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Liquid

COLOR: Amber

DENSITY/SPECIFIC GRAVITY (g/ml): 0.9

VAPOR DENSITY (air=1): >1

VAPOR PRESSURE: <0.01

BOILING POINT/RANGE: >600°F

SOLUBILITY IN WATER: Negligible

VISCOSITY sus@100°F: NA

pH : Neutral

EVAPORATION RATE (Butyl Acetate=1): <1

10. STABILITY AND REACTIVITY

GENERAL: This product is stable.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: Heat and open flames. Strong oxidants, strong acids

HAZARDOUS DECOMPOSITION: Oxides of Carbon, Calcium, Magnesium, Zinc, Phosphorous, and Sulfur, Hydrogen Sulfide.

HAZARDOUS POLYMERIZATION: May occur

11. TOXICOLOGICAL INFORMATION

No information found for this product

12. DISPOSAL INFORMATION

WASTE DISPOSAL: It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations

- Check before disposing to be sure you are in compliance with all applicable laws and regulations.
- Treat used oil according to current rules and regulations.

Protective Measures During Repair and Maintenance of Contaminated Equipment:

- Wash exposed skin thoroughly with soap and water.
- Use polymer gloves if extended, direct contact is expected.
- Avoid prolonged contact with used oil.
- Supplied air respiratory protection should be used for cleaning large spills or upon entry into tanks, vessels, or other confined spaces

After draining oil, wash skin thoroughly with soap and water. Consult appropriate Federal, State and Local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

Dispose of in accordance with Federal, State, and Local regulations.

13. TRANSPORT INFORMATION

DOT (Department of Transportation):

PROPER SHIPPING NAME: Non-regulated

HAZARD CLASS: Non-Hazardous (Not regulated by US DOT)

IDENTIFICATION NUMBER: None

14. REGULATORY INFORMATION

Section 313 (Title III Superfund Amendment and Reauthorization Act)

This product contains the following chemical (s) subject to the reporting of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: The corresponding CAS number and percent by weight are also provided.

NONE

15. OTHER INFORMATION

REVISION SUMMARY:

Complete review of MSDS, December 2005.

THIS PRODUCT MATERIAL SAFETY DATA SHEET PROVIDES HEALTH AND SAFETY INFORMATION. THE PRODUCT SHOULD BE USED IN APPLICATIONS CONSISTENT WITH THIS PRODUCT LITERATURE. FOR ANY OTHER USES, EXPOSURES SHOULD BE EVALUATED SO THAT APPROPRIATE HANDLING PRACTICES AND TRAINING PROGRAMS CAN BE ESTABLISHED TO ENSURE SAFE WORKPLACE OPERATIONS.

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DATE: December 2005