



MATERIAL SAFETY DATA SHEET

MSDS # TF7

DYNO-TECH HD SYNTHETIC 50

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: Dyno-Tech HD Synthetic 50

PRODUCT CODE: 578-000

SYNONYMS: Synthetic Lubricant

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 ingredients at greater than 1% which have been assigned exposure limits by regulatory agencies. Chemical ingredients not regulated by OSHA or SARA are treated confidentially.

3. HAZARDS IDENTIFICATION

APPEARANCE: Amber

PHYSICAL STATE: liquid

ODOR: Slight petroleum odor

EMERGENCY OVERVIEW: When used as intended, this product does not pose a risk to health. Prolonged exposure may cause eye, skin, or respiratory tract irritation.

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 of skin (dermatitis).

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: Not expected to be a problem, however, if greater than ½ liter (pint) ingested, call a physician, hospital emergency room or poison control center for assistance. **DO NOT INDUCE VOMITING** or give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLASH POINT: >428°F

FLAMMABLE LIMITS:

FLAMMABILITY LIMIT – LOWER (%)	0.9
FLAMMABILITY LIMIT – UPPER (%)	7.0

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 self-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, sulfur

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): 0.874

VAPOR DENSITY (air=1): >2

VAPOR PRESSURE: <0.1

BOILING POINT/RANGE: >500°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 and Sulfur.

11. TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation as such is available.

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

This Product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented): TSCA: The ingredients of this product are on the TSCA Inventory. SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

CLEAN AIR ACT SARA(311/312) HAZARD CATEGORIES

None

THIS MATERIAL SAFETY DATA SHEET IS PROVIDED IN GOOD FAITH AND MEETS THE REQUIREMENTS OF THE HAZARDOUS COMMUNICATION PROVISIONS OF SARA TITLE III AND 29CFR1910.1200(g) OF THE OSHA REGULATIONS. THE ABOVE INFORMATION IS BASED ON REVIEW OF AVAILABLE INFORMATION SINCLAIR BELIEVES IS RELIABLE AND IS SUPPLIED FOR INFORMATIONAL PURPOSES ONLY. SINCLAIR DOES NOT GUARANTEE ITS COMPLETENESS OR ACCURACY. SINCE CONDITIONS OF USE ARE OUTSIDE THE CONTROL OF SINCLAIR, SINCLAIR DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, AND ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM THE USE OF THE ABOVE DATA. NOTHING HEREIN IS INTENDED TO PERMIT INFRINGEMENT OF VALID PATENTS AND LICENSES. This product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented):. PROPOSITION 65: This product does not contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM – WHIMIS CONTROLLED PRODUCT CLASSIFICATION

This product has been classified according to the hazard criteria of the Controlled Products Regulations, and the MSDS contains all required information.

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