

GH BERLIN WINDWARD SAFETY DATA SHEET



GH Berlin Windward
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: TO-4 Fluid SAE 10W, 30W, 50W

Product Code: 410100, 410300, 410500

Chemical Family: Transmission Fluids

Manufacturer: Northeast Products Co Inc.

52 Ferry St
Fall River, MA 02721

Emergency Telephone Number: 800-225-8150
8am-4pm M-F

2. HAZARD IDENTIFICATION

Hazard statements : **WARNING** Causes eye irritation
Harmful to aquatic life with long lasting effects.



3. COMPOSITION/INFORMATION ON INGREDIENTS

Percent	Component	Synonym	CAS#
0-99	Lubricating oils, petroleum, hydrotreated spent	N/A	64742-58-1
0-99	Paraffin oils (petroleum), catalytic dewaxed heavy		64742-70-7
0.1-1	Zinc alkyl dithiophosphate		68649-42-3

4. FIRST AID MEASURES

EYE: If material comes in contact with the eyes, immediately wash the eyes with large amounts of water for 15 minutes, occasionally lifting the lower and upper lids. Get medical attention.

SKIN CONTACT: Contact with the skin is not expected to cause an allergic skin response. Repeated contact with the skin may cause irritation. If the material comes in contact with the skin, wash the contaminated skin with soap and water promptly. If the material penetrates through clothing, remove the clothing and wash the skin with soap and water promptly. If irritation persists after washing, get medical attention immediately.

INGESTION: Do not induce vomiting. As a precaution, get medical advice.

INHALATION: If person breathes in large amounts of material, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the person warm and at rest. Get medical attention as soon as possible.

5. FIRE FIGHTING MEASURES

FLASHPOINT (METHOD): 200°C (minimum) (COC)

FLAMMABLE LIMITS IN AIR: N/A

AUTO-IGNITION TEMP: N/A

HAZARDOUS COMBUSTION PRODUCTS: Decomposition and combustion materials may be toxic. Burning may produce sulfur oxides, aldehydes, ketones, carbon monoxide and unidentified organic compounds.

CONDITIONS OF FLAMMABILITY: Sparks or flame. Products may burn, but does not ignite readily.

EXTINGUISHING MEDIA: Water spray, water fog, dry chemical, carbon dioxide (CO₂), foam. Water or foam may cause frothing.

FIRE FIGHTING INSTRUCTIONS: Keep storage containers cool with water spray. A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

FIRE AND EXPLOSION HAZARDS: Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical impact or static discharge.

6. ACCIDENTAL RELEASE MEASURES

SPILLS OR LEAKS: Remove all ignition sources. Isolate hazard area. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Contain spill. Absorb on inert material, shovel, sweep or vacuum spill. For large spills; dike far ahead of liquid spill for collection and later disposal. Use personal protective equipment stated in Section 8. Keep unnecessary and unprotected personnel from entering the release area. Ventilate area and avoid breathing vapor or mist. Advise EPA, state agency.

7. HANDLING AND STORAGE

HANDLING: Keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. This product has a low vapor pressure and is not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating this product, do not breathe vapor or mist. Use in a well-ventilated area. Avoid contact with eyes, skin, clothing and shoes.

SHIPPING/STORING: Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain residue and can be dangerous.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

COMPONENT EXPOSURE LIMITS

Lubricating oils, petroleum, hydrotreated spent

ACGIH: 5mg/m³ TWA (Oil mist, if generated)

10 mg/m³ STEL (Oil mist, if generated)

OSHA: 5mg/m³ TWA (Oil Mist, if generated)

Paraffin oils (petroleum), catalytic dewaxed heavy

ACGIH: 5mg/m³ TWA (Oil mist, if generated)

10 mg/m³ STEL (Oil mist, if generated)

OSHA: 5mg/m³ TWA (Oil Mist, if generated)

ENGINEERING CONTROLS: Provide general ventilation to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT —

EYE: Where eye contact is likely, wear safety glasses; contact lens use is not recommended.

SKIN: Protective gloves recommended when prolonged skin contact cannot be avoided. Use of natural rubber or equivalent gloves is not recommended. When product is heated and skin contact is likely, wear heat-insulating gloves, boots, and other protective clothing. To avoid prolonged or repeated contact where spills and splashes are likely wear appropriate chemical-resistant face shield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

RESPIRATOR: No respiratory protection is normally required. Use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

PERSONAL HYGIENE: Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard leather articles, such as shoes, saturated with these products.

OTHER: Where spills and splashes are likely, facilities storing or using these products should be equipped with emergency eyewash and shower, both equipped with clean water, in the immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

<p>Color: Amber</p> <p>Physical State: Liquid</p> <p>Odor: Petroleum Odor</p> <p>Vapor Pressure: Negligible</p> <p>Vapor Density: >1</p> <p>Viscosity: 6-17.5 cSt @ 100°C (Min)</p> <p>Spec. Gravity: 1 @ 15.5°C- Approximate</p> <p>Density: 0.87 kg/l @ 15.5°C- Typical</p> <p>Solubility: Soluble in Hydrocarbons/Insoluble in water</p>	<p>Boiling Point: N/A</p> <p>Melting Point: N/A</p> <p>Freezing Point: N/A</p> <p>Flash Point: 200°C Min</p> <p>Flammability: N/A</p> <p>Auto Ignition: N/A</p> <p>Decomposition temperature: N/A</p> <p>Octanol/Water Partition Coefficient: N/A</p>
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10. STABILITY AND REACTIVITY

STABILITY: Stable under normal temperatures and pressures.

INCOMPATIBLE MATERIALS: N/A

REACTIVITY: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS DECOMPOSITION: None under normal temperatures and pressures.

11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS: May be harmful if swallowed. May cause an allergic skin reaction.

REPEATED DOSE EFFECTS: No information available.

SENSITIZATION: Based on best current information, there is no known human sensitization associated with this product.

MUTAGENICITY: Based on best current information, there is no known mutagenicity associated with this product.

CARCINOGENICITY : Based on best current information, there is no known carcinogenicity as regulated by OSHA; as categorized by ACGIH A1 of A2 substances; as categorized by IARC Group 1 Group 2A. or Group 2B agents as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.

REPRODUCTIVE TOXICITY : No information available.

TERATOGENICITY: No information available.

ADDITIONAL TOXICITY DATA: None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

12. ECOLOGICAL INFORMATION

ECOTOXICITY : This material is expected to be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

PERSISTENCE/DEGRADABILITY : Not readily biodegradable.

BIOACCUMULATIVE POTENTIAL : No information available for this product.

MOBILITY IN ENVIRONMENT : Base oil component(s) – Low solubility and floats; expected to migrate from water to land.

OTHER ADVERSE EFFECTS: N/A

OCTANOL/WATER PARTITION COEFFICIENT: N/A

VOLATILE ORGANIC COMPOUNDS : Negligible

AQUATIC RELEASE : Advise authorities if product has entered or may enter watercourses or sewer drains.

13. DISPOSAL INFORMATION

DISPOSAL: Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste.

USEPA WASTE CODES; This product, if discarded, is not expected to be a characteristic or listed hazardous waste. If recycled in the USA, it must be managed in accordance with 40 CFR Part 279. Processing, use, or contamination by user may change the waste code(s) applicable to the disposal of this product.

14. TRANSPORTATION INFORMATION

DOT : Not regulated as a hazardous material for Land Transport

PROPER SHIPPING NAME : Petroleum Lubricating Oil

HAZARD CLASS: Not regulated

ID NUMBER: Not regulated

LABEL REQUIRED: Not regulated

EMERGENCY RESPONSE: N/A Reference North American Emergency Response Guidebook.

15. REGULATORY INFORMATION

TSCA: All components of this product are listed in **Section 3** are exempted from the TSCA requirements.

SARA SECTIONS 302 304: Based on the ingredients listed in **Section 3**, this product does not contain any “extremely hazardous substances” listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA SECTIONS 311 AND 312 REPORTING: This product poses the following health hazard(s) as defined in 40 CFR Part 370 and is subject to the requirements of Sections 311 and 312 of Title III of Superfund Amendments and Reauthorization Act of 1986 (SAEA):

SARA SECTION 313: This product contains the following chemical(s) subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

Zinc dialkyl dithiophosphate 0.0 – 1.0

Immediate (Acute) Health Hazard: YES

Delayed (Chronic) Health Hazard: No

Physical Fire: No

Physical Sudden Release of Pressure: No

Physical Reactive: No

CERCLA: Based on the ingredients listed in **Section 3**, this product does not contain any “hazardous substances” listed pursuant to the comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

16. OTHER INFORMATION

NFPA RATINGS: Health: 1 Flammability: 1 Reactivity: 0

HMIS RATINGS: Health: 1 Flammability: 1 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator).

DATE ISSUED: May 05, 2015

REVISION NO. New SDS

REVISION INFORMATION: Not applicable

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