

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Trandraulic Fluid (All Grades)**
Product description: Transmission / Hydraulic / Wet Brake Fluids

MANUFACTURER:

Northland Products Company
1000 Rainbow Drive
Waterloo, IA 50704
319-234-5585, 1-800-772-1724

EMERGENCY TELEPHONE NUMBERS:

Chemtrec: 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

	<u>wt. Percent</u>	<u>CAS Registry #</u>
Lube Oil Base Stock	85-95	064742-54-7
Petroleum Additives	5-15	Mixture

3. HAZARD IDENTIFICATION

Emergency Overview:

Clear, Amber, Liquid. (May be dyed or odormasked.)
Health studies have shown that petroleum hydrocarbons pose potential human health risks which may vary from person to person. Exposure to liquids, mists, vapors and fumes should be minimized.

POTENTIAL HEALTH EFFECTS:

INHALATION:

Vapors are minimal under normal conditions but should be avoided, concentrations may reach levels that could cause slight irritation.

EYE CONTACT:

May cause slight temporary eye irritation. Corneal injury is unlikely. Vapors or mists may irritate eyes.

SKIN CONTACT:

May cause skin irritation. Discontinue use if irritation persists.

INGESTION:

Ingestion of oil may irritate the digestive tract and could cause diarrhea. Single dose oral toxicity is greater than 5000 mg/Kg in rats.

OTHER:

The TLV has not been determined for this material. The TLV for oil mists is 5 mg/cubic meter.

Hazardous Material Identification System (HMIS):

Health-1, Flammability-2, Reactivity-0 (Based on components)

4. FIRST AID MEASURES

INHALATION:

Remove the victim from the area to fresh air. Call a physician. Give oxygen if victim is breathing hard.

EYE CONTACT:

Flush eyes with large amounts of water immediately for 15 minutes or until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT:

Wash affected areas thoroughly with soap and water. Remove contaminated clothing and wash them before wearing again. Call a physician if irritation persists.

INGESTION:

Call a doctor immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash point : 350°F Minimum (COC)

Flammable limits : Not Determined

Autoignition Temperature: Not Available

GENERAL HAZARD:

May release vapors that form flammable mixtures when temperatures are at or above the flash point. Toxic gases will form upon combustion.

FIRE FIGHTING INSTRUCTIONS:

Either allow fire to burn out under controlled conditions or extinguish with foam, CO₂, or dry chemical. Try to cover liquid spills with foam. Shut off fuel to fire if possible to do so without hazard.

FIRE FIGHTING EQUIPMENT:

NIOSH approved self-contained breathing apparatus and eye protection are required for fire fighting personnel on all indoor fires and any significant outdoor fires.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, fumes, carbon monoxide, carbon dioxide and water.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

Health-2, Flammability-2, Reactivity-0 (Based on components)

6. ACCIDENTAL RELEASE MEASURES

Notify the appropriate authorities immediately. Take all actions necessary to prevent adverse effects of the spill. Eliminate ignition sources. Shut off leak if safe to do so. Dike spilled liquid with sand/earth and dispose of properly. DO NOT use sawdust or other combustible materials. Prevent product from entering sewers or waterways. National Response Center 1-800-424-8802

7. HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient STORAGE PRESSURE: Atmospheric

GENERAL:

Keep container closed. Loosen closure cautiously before opening. Store in well ventilated area away from incompatible materials. (See Section 10) Keep away from heat, sparks and flames. Empty container may still retain hazardous properties.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Use mechanical ventilation to control vapor concentrations in confined spaces. General ventilation should be sufficient for most operations.

PERSONAL PROTECTION:

Respirator:

Use an air supplied respirator when concentrations are over the exposure limits.

Protective Clothing:

Wear rubber gloves, rubber boots, a chemical worker's suit and chemical splash goggles as appropriate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling point	: >500°F
Vapor pressure	: Not determined
Vapor density	: Not determined
Solubility in water	: Insoluble
Specific gravity	: 0.88 approximately
pH	: Not available
Odor	: Petroleum (Could be masked)
Appearance	: Clear Amber (Could be dyed)
Physical state	: Liquid

10. STABILITY AND REACTIVITY

GENERAL:

This product is stable and will not polymerize.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION:

None.

11. TOXICOLOGICAL INFORMATION

No component of this product present at levels greater than 0.1% is identified as a carcinogen by NTP, IARC or OSHA.

12. ECOLOGICAL INFORMATION

No data is available.

13. DISPOSAL CONSIDERATIONS

Ensure disposal is in compliance with Federal-State-Local laws. Do not landfill or dispose of in sink drains or sewers.

14. TRANSPORTATION INFORMATION

DOT (Department of Transportation):

Proper shipping name	: Petroleum Lubricating Oil.
Hazard class	: Not regulated
Identification number	: Not regulated
Labeling	: Not regulated

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act):

All components of this product are listed on the U.S. TSCA inventory.

CERCLA (Comprehensive Response Compensation, and Liability Act):

This product is not subject to any special reporting under the requirements of CERCLA. We recommend you contact local authorities to determine local reporting requirements.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

311/312 Hazard Categories:

This material is not classified as hazardous by OSHA under 29 CFR part 1910.1200(d).

313 Reportable Ingredients:

Contains 1.4 weight percent of Zinc compounds.

16. OTHER INFORMATION

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