

MATERIAL SAFETY DATA SHEET

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Updated 07-15-2010
Supersedes 01-25-10
MSDS# 11B7

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **John Deere Plus-50 II 0W-40**
Product description: API CJ-4 Engine Oil/Lubricant

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>
Synthetic Base Stock	>78	068649-12-7
Zinc alkyl dithiophosphate	< 2	068649-42-3
Proprietary Additives	<15	Trade Secret
Acrylic Copolymer	< 5	Trade Secret

3. HAZARD IDENTIFICATION

Emergency Overview:

Clear, Amber, Liquid. (May be dyed or odor masked.)
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 ACGIH TLV and the OSHA PEL for oil mists are both 5 mg/cubic meter.

Hazardous Material Identification System (HMIS):

Health-1, Flammability-1, 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 : 390°F (COC)

Flammable limits : Not Available

Auto-ignition Temperature: Not Determined

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 firefighting 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-1, Flammability-1, 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 a NIOSH approved air supplied respirator when concentrations are over the exposure limits.

Protective Clothing:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling point	: Not Available
Vapor pressure	: Negligible at ambient
Vapor density	: Not determined
Solubility in water	: Negligible
Specific gravity	: 0.85
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% are identified as a carcinogen by NTP, IARC or OSHA. This product uses synthetic base oil not refined from petroleum base stocks. The potential of base oil prepared by this process to cause cancer has not been specifically addressed by the OSHA Hazard communication Standard (29 CFR 1910.1200), the International Agency for Research on Cancer (IARC), nor the National Toxicology Program (NTP) Annual Report. However, the process conditions, chemical analysis, and the results of mutagenicity tests all support our opinion that these oils should not cause skin cancer.

12. ECOLOGICAL INFORMATION

This material may be toxic to aquatic animals based on data for additive components and is not expected to be readily biodegradable.

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

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 less than 2 weight percent of Zinc compounds.

15. REGULATORY INFORMATION (Continued)

International Inventory Status:

United States : All components comply with TSCA Inventory
Canada : All components comply with DSL
Europe : one or more components listed on ELINCS. All
other components listed or exempt from EINECS
(Secondary notification by importer may be required.)
Japan : All components notified but may not be on ENCS
(Secondary notification by importer may be required.)
Australia : All components notified but may not be on NICNAS
(Secondary notification by importer may be required.)
Korea : All components comply with KECI
China : All components notified but may not be on IECSC
(Secondary notification by importer may be required.)
Philippines : All components comply with PICCS

16. OTHER INFORMATION

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND IS ACCURATE TO THE BEST OF NORTHLAND PRODUCTS COMPANY'S KNOWLEDGE; HOWEVER, NORTHLAND PRODUCTS COMPANY MAKES NO WARRANTY WHATSOEVER, EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, REGARDING THE ACCURACY OF SUCH DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. NORTHLAND PRODUCTS COMPANY ASSUMES NO RESPONSIBILITY FOR THE INJURY TO THE RECIPIENT OR TO THIRD PARTY PERSONS OR FOR ANY DAMAGE TO ANY PROPERTY AND RECIPIENT ASSUMES ALL SUCH RISKS.