

**MATERIAL SAFETY DATA SHEET**

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: **NORPLEX II GREASE**  
Product description: Petroleum based Lithium complex grease

**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>
Distillates (Petroleum) hydrotreated heavy paraffinic	>93	64742-54-7
or Distillates (Petroleum) solvent-dewaxed heavy paraffinic		64742-65-0
and Distillates (Petroleum) solvent-refined heavy napthenic		64741-96-4
and Distillates (Petroleum) solvent-dewaxed heavy napthenic		64742-63-8
or Residual oils (Petroleum) solvent-dewaxed heavy napthenic		64742-62-7
and Residual oils (Petroleum) hydrotreated		64742-57-0
and Lithium Complex Soap Thickener		Mixture
Proprietary Additives	<7	Mixture

**3. HAZARD IDENTIFICATION**

**Emergency Overview:**

Smooth dark blue grease with a mild to bland odor.  
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.

**SKIN CONTACT:**

May cause skin irritation or dermatitis. Discontinue use if irritation persists.

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**3. HAZARD IDENTIFICATION** *(Continued)*

INGESTION:

This product has a low order of acute oral and dermal toxicity, however minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

OTHER:

Acute oral LD50 (Rat) greater than 5 g/kg of body weight.

Acute dermal LD50 (Rabbit) > 3.16 g/kg of body weight.

**Hazardous Material Identification System (HMIS):**

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

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**4. FIRST AID MEASURES**

INHALATION:

Normal use should not result in exposure. If overcome by vapor from hot product, immediately remove from exposure and call a physician. Administer oxygen or resuscitation if breathing is irregular or has stopped.

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. High pressure injection of this product into or under the skin should be evaluated by a physician as a surgical emergency. Treatment within the first few hours may significantly reduce the ultimate extent of the injury.

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.

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**5. FIRE FIGHTING MEASURES**

Flash point : 430°F (COC)

Upper flammability limit : 7.0 %

Lower flammability limit : 0.9 %

Autoignition temperature : > 500°F

GENERAL HAZARD:

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

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**5. FIRE FIGHTING MEASURES** (Continued)

FIRE FIGHTING INSTRUCTIONS:

Either allow fire to burn out under controlled conditions or extinguish with foam, CO<sub>2</sub>, 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, sulfur oxides, phosphorus oxides, metal oxides and water.

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**

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

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**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

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**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.

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**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.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Boiling point : >590°F ASTM D2887  
Vapor pressure : < 0.01 mm Hg @ 20°C  
Vapor density : > 5  
Solubility in water : Insoluble  
Specific gravity : 0.93 approximately  
pH : Not available  
Odor : Mild/Bland petroleum odor  
Appearance : Smooth dark blue  
Physical state : Semi-solid (Grease)

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**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.

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**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.

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**12. ECOLOGICAL INFORMATION**

No data is available.

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**13. DISPOSAL CONSIDERATIONS**

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

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**14. TRANSPORTATION INFORMATION**

DOT (Department of Transportation):

Proper shipping name : Not regulated  
Hazard class : Not regulated  
Identification number : Not regulated  
Labeling : Not regulated

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**15. REGULATORY INFORMATION**

RQ (Reportable Quantity): 40 CFR 302 (CERCLA 102)  
No RQ for product or any constituent >1% or 0.1% (Carcinogen)

TPQ (Threshold Planning Quantity): 40 CFR 355 (SARA 301-304)  
No TPQ for product or any constituent >1% or 0.1% (Carcinogen)

TSCA (Toxic Substance Control Act):  
All components of this product are listed on the U.S. TSCA inventory.

TSCA 12b reportable chemical substances:  
Isopropanol (IPA) CAS# 67-63-0  
9-Octadecene-1-amine CAS# 112-90-3

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: 40 CFR 370  
Not Applicable.

313 Reportable Ingredients: 40 CFR 372  
Contains 1.5 weight percent of Zinc compounds.

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**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.