



## Material Safety Data Sheet

# OAK NOVA EP GREASE 2

## WATERPROOF GREASE

**DATE EFFECTIVE:** 10-12-2006

### 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer:** Oak International, Inc.  
1160 White Street  
Sturgis, MI 49091 United States

**Emergency:** Telephone (USA): 1-800-424-9300 (CHEMTREC)  
Telephone (OUTSIDE USA): 1-703-527-3887 (CHEMTREC)

**General Information:** Telephone: 1-269-651-9790

**Generic Name:** Waterproof Grease

### 2 EMERGENCY INFORMATION

Product may be a primary skin irritant. Pulmonary aspiration hazard if swallowed and/or vomiting occurs - can enter lungs and cause damage. Product is a primary eye irritant. Product is combustible. Highway spills could result in slippery conditions. No other significant health effects are associated with this material.

### 3 POTENTIAL HEALTH EFFECTS OF DIRECT EXPOSURE

#### Product

**Inhalation:** Extended exposure to mist may cause upper respiratory irritation.

**Eye Contact:** Product is a primary eye irritant.

**Skin Contact:** Product may be a primary skin irritant.

**Ingestion:** Not orally toxic. Pulmonary aspiration hazard if swallowed and/or vomiting occurs - can enter lungs and cause damage.

#### Medical Conditions generally aggravated by exposure

May aggravate existing skin irritation where further defatting or skin penetration could occur.

Mild skin irritation (redness and dryness of hands) may be experienced when the product has been contaminated by certain oils or by dissolved metals. When problems occur, use of oil-resistant barrier creams may be a temporary control measure. Contact Oak International, Inc. Technical Services at 1-269-651-9790 for specific recommendations.

When used in applications generating high levels of mist, operator exposure can be minimized by proper ventilation, use of mist collectors or splash guards, as appropriate. If there is doubt about actual mist levels present, monitoring should be conducted. Contact Oak International, Inc. at 1-269-651-9790 for specific recommendations.

**Carcinogen Listings:** NTP: No IARC: No OSHA: No

### **Signs and symptoms of exposure**

#### **Acute**

Eye injury may result from contact with product. Skin irritation can result from improper use and handling of product.

## **4 EMERGENCY AND FIRST AID PROCEDURES**

### **Eyes**

In case of eye contact, flush immediately with running water for at least 15 minutes, and get prompt medical attention.

### **Skin Contact**

For skin contact flush with large amounts of water while removing contaminated clothing. Remove contaminated shoes and clothing and launder before reuse. If irritation persists, get medical attention.

Product is not irritating to the skin when used as recommended and good personal hygiene is practiced.

### **Ingestion**

If the material is swallowed, DO NOT INDUCE VOMITING. Immediately contact a physician and obtain treatment. Do not give liquids. Swallowing small quantities of product may cause nausea, diarrhea or abdominal distress.

### **Inhalation**

Inhalation can occur in applications where high mist levels are generated. OSHA has set a PEL of 15 mg/m<sup>3</sup> for any airborne particulate as a nuisance level of exposure. NIOSH has set a REL of 0.5 mg/m<sup>3</sup> for metalworking fluid mist. If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention.

## **5 CONTROL MEASURES**

### **Respiratory protection**

Product is not volatile.

In applications where time-weighted exposures are 0.5 to 5 mg/m<sup>3</sup>, mist reduction through improved ventilation, mist collection or process modification is recommended by NIOSH. Where this is not possible, NIOSH recommends the use of any air purifying, half-mask respirator including a disposable respirator, equipped with any P- or R-series particulate filter. If the average exposure will exceed 5 mg/m<sup>3</sup>, NIOSH recommends use of a powered, air-purifying respirator equipped with a hood or helmet and a HEPA filter. If respiratory problems are present when mist levels are < 0.5 mg/m<sup>3</sup>, respiratory protection should be based on the individual recommendation of a qualified health care provider.

### **Caution**

The appropriate use and type of respirator is dependent upon use of the product and local operating conditions.

### **Ventilation**

For most applications, normal shop ventilation is adequate. However, when high mist levels are generated or where machines are close together or ventilation is inadequate, operators may experience respiratory irritation. For such applications, use of splash guards or mist collectors is recommended.

### Eye protection

Proper metalworking plant eye protection required when handling product.

### Other protective clothing or equipment

Use effective metalworking plant protective clothing as appropriate.

### Work / Hygiene Practices

Good personal hygiene should always be followed.

### Protective Gloves

Impervious gloves, such as nitrile gloves, are recommended when handling product.

## 6 HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

These ingredients may contribute to the acute product hazards listed under the Potential Health Effects section. Other substances, not hazardous under the OSHA Hazard Communication Standard, may be present. Further composition information may be available to health professionals as provided in the Standard.

Component	CAS #	Percent
SEVERELY-HYDROTREATED NAPHTHENIC PETROLEUM DISTILLATES (CAS# 64741-96-4 or 64742-52-5)	SEE COMPONENT	70 - 100
LITHIUM 12-HYDROXYSTEARATE	7620-77-1	2 - 12
PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS	68649-42-3	1 - 5

## 7 FIRE AND EXPLOSION HAZARD DATA

### Extinguishing Media

Chemical foam, carbon dioxide, or dry chemical

### Hazardous Combustion Products

Smoke, fumes, oxides of sulfur, and oxides of carbon

**Flash Point:** 435.2 °F (224 °C) Cleveland Open Cup

**Lower Explosive Limit:** Not Applicable

**Upper Explosive Limit:** Not Applicable

### HMIS RATINGS

Health 1  
Flammability Classification 1  
Reactivity 0  
Pers. Prot B

### NFPA RATINGS

Health 1  
Flammability Classification 1  
Reactivity 0

## 8 ACCIDENTAL RELEASE MEASURES

Contain the spill, collect on absorbent material, and discard as dictated by Federal, state and local regulations that may apply. Flush area thoroughly with water.

**Reportable Quantity:** None

## 9 WASTE DISPOSAL

### **For Used Product**

Disposal procedures must comply with local, county, state and Federal regulations. Contact Oak International, Inc. at 1-269-651-9790 for assistance.

### **For Unused Product**

Product is not a hazardous waste as defined under 40 CFR 261. Contact Oak International, Inc. at 1-269-651-9790 for assistance.

### **Empty Containers**

Empty containers will contain a residue which is not considered a hazardous waste under RCRA regulations. Drums can be drained to a "drip dry" condition by inversion and can be offered for recycling or scrap.

**CAUTION:** Empty containers retain residue (liquid and/or vapor) and may be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE THIS CONTAINER TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION: IT MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean drums since residue is difficult to remove. Empty drums should be completely drained, promptly bunged, and promptly returned to a drum reconditioner. Empty disposable bulk containers should be drained, sealed, and properly discarded. Empty recyclable bulk containers should be drained, sealed, and recycled. Empty pails and jugs should be drained and properly discarded.

## 10 HANDLING AND STORAGE

Avoid all contact of product with eyes or skin. Wash thoroughly after handling. Do not swallow. Use only as recommended by Oak International, Inc. . Protect from freezing. Do not store product in direct sunlight or elevated temperatures.

### **Other Precautions**

Product is combustible. Do not heat. Avoid open flames, sparks, and temperatures approaching the flash point.

## 11 PHYSICAL / CHEMICAL CHARACTERISTICS

<b>Boiling Point:</b>	Not Applicable
<b>Specific Gravity:</b>	0.9
<b>Vapor Pressure:</b>	0.01 mm-Hg @20C
<b>Vapor Density:</b>	5 (air = 1)
<b>Solubility (H2O):</b>	Insoluble
<b>Appearance/Odor:</b>	Opaque/Chemical

## 12 REACTIVITY

### **Stability**

Stable under normal conditions.

### **Conditions to avoid**

Use as directed.

**Materials to avoid**

Avoid contact with strong acids or oxidizers to product.

**Hazardous Polymerization**

Will not occur.

**Combustion Products**

Smoke, fumes, oxides of sulfur, and oxides of carbon

**13 TRANSPORTATION INFORMATION****BY LAND****Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101)**

Not a Hazardous Material

**U.S. Harmonized Tariff Code:** 2710.19.3070

**BY AIR OR VESSEL****Hazardous Materials Description and Proper Shipping Name (49 CFR 172.101)**

Not a Hazardous Material

**14 REGULATORY INFORMATION****EXPOSURE GUIDELINES**

<b>REGULATED MATERIAL</b>	<b>NIOSH REL</b>	<b>OSHA PEL</b>	<b>OSHA STEL</b>	<b>ACGIH TLV</b>	<b>ACGIH STEL</b>
MINERAL OIL (MIST)	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>		5 mg/m <sup>3</sup>	

**CERCLA**

No components of this product are present at levels which require reporting under 40 CFR 302.4.

**EPCRA (SARA) TITLE III Extremely Hazardous Substances (302):** None

**Hazardous Substances (311/312)**

Product is a hazardous substance as defined under the OSHA Hazard Communication Standard and may be reportable under the provisions of SARA Sections 311 and 312.

**HAZARD CATEGORIES**

**Acute Health:** Yes

**Chronic Health:** No

**Fire:** No

**Sudden Release of Pressure:** No

**Reactive:** No

**RCRA**

Product does not meet the definition of a hazardous waste as defined under 40 CFR 261. It is possible that in use, the product may be contaminated by metals or by chlorinated solvents and the final waste may meet the TCLP definition. Each facility should assess each waste stream to determine if the used fluid should be treated as a hazardous waste.

**TSCA**

The ingredients of this product are on the TSCA inventory.

**State Right to Know**

Many states have enacted Community Right-To-Know laws which require information beyond that mandated by federal laws. Since some of these laws are inconsistent with the federal laws, the information in this sheet may not fully meet the requirements of every state.

## Toxic Substances (313)

Component	CAS #	Max %	Comments
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None

%

### GLOSSARY OF ABBREVIATIONS

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds

### Disclaimer

NOTE: The opinions expressed herein are those of qualified experts within Oak International, Inc. and of their suppliers. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and of these opinions and the condition and use of the product are not within the control of Oak International, Inc. , it is the user's obligation to determine the conditions of safe use of the product.