

# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Identification of the substance/preparation** ISO 46 Hydraulic Oil – 10560, 10561

**Use of the substance/preparation** Hydraulic Oil  
**Version No.** 01  
**Revision date** 01-January-2014  
**CAS No.** Mixture

**Supplier** **Plews & Edelmann**  
1550 Franklin Grove Road  
Dixon, IL 61021  
815-288-3344

**Manufacturer Address** Environmental Lubricants Manufacturing, Inc.  
311 B Ave -Grundy Center, IA 50638

**SDS Questions:** (319) 824-5203

**Emergency telephone:** CHEMTREC: (800) 824-9300

## 2. HAZARDS IDENTIFICATION

This preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Physical hazards** Not classified as a physical hazard.

**Health hazards** Not Classified as a health hazard.

**Environmental hazards** Not Toxic-Not classified as an environmental hazard.

**Specific hazards** May form vapors or oil mists during mechanical action or at elevated temperatures which may be irritating to the respiratory tract. Excessive inhalation of oil mist may affect respiratory system. Dermatitis after prolonged exposure. Prolonged or repeated contact with skin may cause redness, itching, irritation, eczema/chapping and oil acne.

**Main symptoms** Irritant effects. Irritation of eyes and mucous membranes.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components Notes	Classification	CAS-No.	%	EC-No. / REACH Registration No.
Vegetable Oil	-	120962-03-0	60-100	273-315-5

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**Composition comments**                      The full text for all R-phrases is displayed in Section 16. All concentrations are in percent by

weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. FIRST-AID MEASURES

**Inhalation**

Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact**  
minutes. In

Remove contaminated clothes and rinse skin thoroughly with water for at least 15

minutes. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

**Eye contact**  
contact lenses

Immediately flush eyes with plenty of water for at least 15 minutes. Remove any and open eyes wide apart. Get medical attention if irritation develops or persists.

**Ingestion**  
**Most important symptoms and**

Drink 1 or 2 glasses of water. Get medical attention if any discomfort continues.

**Effects**

Symptoms include itching, burning, redness, and tearing of eyes.

**General advice**

Get medical attention if any discomfort develops.

**Notes to physician**

Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Dry chemical, foam, carbon dioxide.

**Extinguishing media which must not be used for safety reasons**

Do not use water jet as an extinguisher, as this will spread the fire.

**Unusual fire & explosion Hazards**

None known

**Specific hazards**  
molecular weight

Thermal decomposition may produce smoke, oxides of carbon and lower organic compounds whose composition have not been characterised.

**Special protective equipment for fire-fighters**  
case of fire.

Self-contained breathing apparatus and full protective clothing must be worn in

case of fire. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

**Fire fighting equipment/instructions**  
cool unopened

Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b> protection, see Section 8.	Ensure adequate ventilation. Remove sources of ignition. For personal In case of spills, beware of slippery floors and surfaces..
<b>Environmental precautions</b> spillage as indicated	Do not allow to enter drains, sewers or watercourses. Collect and dispose of in Section 13. Contact local authorities in case of spillage to drain/aquatic environment.
<b>Methods for cleaning up</b> this is possible.	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.  Small Spills: Absorb spillage with oil-absorbing material.  Large Spills: Absorb spilled substance with sand or earth.

## 7. HANDLING AND STORAGE

<b>Handling</b> contact with skin	Wear appropriate personal protective equipment. Avoid inhalation of oil mist and and eyes. Handle and open container with care. Use work methods which minimize production of vapors and mists. Observe good industrial hygiene practices.
<b>Storage</b> place. Store	Keep away from heat, sparks and open flame. Store in a cool and well-ventilated away from incompatible materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Exposure controls</b> mist.	Provide adequate ventilation and minimize the risk of inhalation of vapors and oil mist.

### Occupational exposure controls

<b>Respiratory protection</b> inadequate ventilation	No personal respiratory protective equipment normally required. In case of or risk of inhalation of oil mist, suitable respiratory equipment with combination filter (type A2/P2) can be used. Seek advice from local supervisor.
<b>Hand protection</b> recommended	Wear protective gloves. Nitrile gloves are recommended. Suitable gloves can be by the glove supplier.
<b>Eye protection</b>	If risk of splashing, wear safety goggles or face shield.
<b>Skin and body protection</b>	Wear suitable protective clothing. Frequent change of gloves is advisable.
<b>General</b> should be chosen	Use personal protective equipment as required. Personal protective equipment according to the CEN standards and in discussion with the supplier of the personal protective equipment.

### Environmental exposure

<b>Controls</b> emissions.	Contain spills and prevent releases and observe national regulations on
<b>Hygiene measures</b> hands after	Handle in accordance with good industrial hygiene and safety practices. Wash handling. Launder contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Oily Liquid.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Colour</b>	Amber.
<b>Odour</b>	Characteristic vegetable oil.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Flash point</b>	312 °C
<b>Flammability</b>	°C
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapour pressure</b>	< 0.5 mm Hg at 20 °C
<b>Relative density</b>	0.92
<b>Solubility (water)</b>	Practically insoluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Viscosity</b>	44 cst @ 40 °C
<b>Vapour density</b>	> 1 (Air = 1)
<b>Evaporation rate</b>	< 1 (n-Butylacetate = 1)
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>VOC</b>	0 %

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable at normal conditions.
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<b>Conditions to avoid</b>	High temperatures. Exposure to light. Contact with incompatible materials.
<b>Materials to avoid</b>	Strong oxidising agents.
<b>Hazardous decomposition Products</b> Nitrogen oxides.	At thermal decomposition temperatures, carbon monoxide and carbon dioxide.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b> temperatures which may be	May form vapours or oil mists during mechanical action or at elevated
system.	irritating to respiratory tract. Excessive inhalation of oil mist may affect respiratory
	Causes skin and eye irritation. Swallowing may cause gastrointestinal irritation.
<b>Routes of exposure</b>	Eye contact. Inhalation. Skin contact.
<b>Chronic toxicity</b> and dermatitis	Frequent or prolonged contact may defat and dry the skin, leading to discomfort
<b>Sensitisation</b> provoke an allergic	The product contains a small amount of sensitising substance which may
	reaction among sensitive individuals.
<b>Carcinogenicity</b>	IARC not listed.
<b>Mutagenicity</b>	No test data available for the product.
<b>Reproductivity</b>	No test data available for the product.
<b>Epidemiology</b>	No epidemiological data is available for this product.
<b>Local effects</b>	Irritating to eyes and skin. May cause redness and pain.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b> However, this does not	The product components are not classified as environmentally hazardous.
	exclude the possibility that large or frequent spills can have a harmful or
	damaging effect on the environment
<b>Mobility</b>	The product is immiscible with water and will spread on the water surface.
<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulation</b>	No data available.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal instructions</b>	Dispose in accordance with all applicable regulations.
<b>Waste from residues / unused Products</b>	Dispose of in accordance with local regulations.
<b>EU waste codes</b>	13 08 99*

## 14. TRANSPORT INFORMATION

<b>ADR</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.

## 15. REGULATORY INFORMATION

<b>Other regulations</b> 1907/2006 as	This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended.
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## 16. OTHER INFORMATION

<b>Wording of the R-phrases in sections 2 and 3</b> 1999/45/EC	This preparation is not classified as dangerous according to Directive 1999/45/EC
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### Inventory status

<b>Country(s) or region inventory (yes/no)*</b>	<b>Inventory name</b>	<b>On</b>
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

<b>Disclaimer</b> components of the material,	The information given is based on data available for the material, the components of the material, and similar materials.
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<b>Issue date</b>	10-June-2010
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