



# Safety Data Sheet

Rev. Date: 08/19/2014

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## 1. PRODUCT AND COMPANY IDENTIFICATION

### Universal ECO Ultra Hydraulic Oil AW #46

Hydraulic Oil  
Petroleum Lubricant  
Product Code: I5060

Universal Lubricants, LLC  
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Wichita, Kansas 67219  
Website: [www.universallubes.com](http://www.universallubes.com)

1-800-444-6457 Telephone  
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## 2. HAZARDS IDENTIFICATION

<b>Physical Hazards:</b>	Not classified
<b>Health Hazards:</b>	Skin corrosion/irritation Category 3 Eye damage/irritation Subcategory 2B
<b>Signal Word:</b>	WARNING
<b>Hazard Statement:</b>	H316 Causes mild skin irritation H320 Causes eye irritation
<b>GHS Symbol:</b>	<i>No Symbol</i>

## Precautionary Statements

- Prevention:** P280 Wear protective gloves/protective clothing/eye protection/face protection  
P264 Wash contaminated area of the body thoroughly after handling
- Response:** P302+P352 IF ON SKIN: Wash with soap and water  
P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes.  
Remove contact lenses if present and easy to do – continue rinsing  
P363 Wash contaminated clothing before reuse  
P337+P332+P313 If eye/skin irritation occurs: Get medical advice/attention
- Storage:** P402+P404 Store in a dry place. Store in a closed container  
P403 Store in a well-ventilated place.
- Disposal:** P501 Dispose of contents/container with compliance to federal, state and local regulations. Contact Universal Lubricants for proper disposal options

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms:** Hydraulic Oil

**Formula:** Mixture

**Molecular Weight:** Variable

Component	CAS Number	Concentration %
Base Lubricating Oils Mixture		95-99
R&O Inhibitor/Anti-Wear Agent – Trade Secret		1.0
Pour Point Depressant – Trade Secret		<1.0
Anti-Foam Agent – Trade Secret		<1.0

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## 4. FIRST AID MEASURES

### Eyes

Move individual away and into fresh air. Immediately flush eyes with large amounts of fresh water and continue flushing until irritation subsides. Seek medical attention.

### Inhalation

If breathing difficulty exists, remove individual away from exposure and into fresh air. Seek medical attention. If breathing remains difficult, administer oxygen, keep person warm and quiet, and seek immediate attention.

### Skin

Remove contaminated clothing. Wash contaminated area repeatedly with soap and water. Do not reuse clothing until thoroughly cleaned and laundered. Seek medical attention for persistent irritation.

### Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth, place individual on the left side with head down and call emergency contacts. Contact a physician, medical facility or poison control center for advice about whether to induce vomiting. Do not leave individual unattended.

### Skin Injection

If product is injected into or under skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

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## 5. FIREFIGHTING MEASURES

### Suitable extinguishing media

Use dry chemical, foam, carbon dioxide (CO<sub>2</sub>) or water spray or water fog.

### Specific hazards from combustion

Carbon monoxide, carbon dioxide, aldehydes, hydrocarbons, oxides of sulfur, nitrogen, phosphorus and other oxides may be products of combustion.

### **Special protective equipment for fire-fighters**

Wear full firefighting turn-out gear (full bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of oil liquid since this may cause frothing and increase fire intensity. Cool fire exposed containers with water spray and avoid spreading burning material with water used for cooling purposes.

### **NFPA Flammable and Combustible Liquids Classification**

Combustible Liquid Class IIIB

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## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions and Protective equipment**

Personal Protection, see section 8. Any individual not wearing protective equipment should not enter spill or contaminated area until all clean-up has been completed.

### **Emergency procedures**

For personal emergency procedures see section 4. For fire emergency procedures see section 5. Contain spilled oil liquid if possible without posing any risk or personal injury.

### **Environmental precautions**

Prevent spreading over a wide area. Contain spill immediately. Contact appropriate authorities of spill. Do not allow spill to enter sewer system, drains of any kind, surface water or water courses. Avoid flushing to such areas as well. Remove all sources of ignition

### **Methods and materials for containment and cleaning up**

Soak up or absorb with appropriate inert materials such as, sand, clay, silica gel, acid binder, universal binder, sawdust, paper fiber etc. Large spills may be picked up using vacuum pumps, shovels, buckets or other means of transfer and placed into drums or any other approved and suitable containers.

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## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

This product is not classified as a Hazardous Material under DOT regulations. See NFPA 30 and OSHA 1910.106 flammable and combustible liquids.

### **Conditions for safe storage**

Store in only approved and marked containers. Store in a cool, dry ventilated area. Keep containers closed when not in use and during transportation. Keep containers away from flame or other ignition sources.

## **Incompatibilities**

Strong oxidizing agents, acids, halogens.

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **OSHA Final: (PEL)**

Contains no substances with occupational exposure limit values.

### **American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV)**

5.00 mg/m<sup>3</sup> suggested for oil mist.

### **Respiratory protection**

If vapor mist is generated when the material is heated or handled, use an organic vapor respirator with a dust and mist filter. All respirators must be NIOSH certified. Fit testing may be required before use. Do not use compressed oxygen in hydrocarbon atmospheres. Adequate ventilation in accordance with good engineering practices must be provided to maintain concentrations below the specified exposure or flammable limits.

### **Hand protection**

For prolonged or repeated exposures hand protection is required. Wear resistant gloves suitable for the product, contact your safety department or supplier to determine the proper hand protection.

### **Eye protection**

Not required under normal conditions of use. If material is handled such that it could be splashed or misted into eyes, wear plastic face shield or splash resistant safety goggles or glasses with side shields.

### **Skin and body protection**

For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, bibs, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing. Launder soiled clothes, do not reuse contaminated clothing. Properly dispose of contaminated clothing or articles that cannot be laundered such as leather gloves, boots, etc. If skin irritation develops, contact your facility safety department or safety supplier to determine the proper protective equipment for your use.

### **Hygiene measures**

Do not use contaminated clothing, launder clothing before reuse. Wash contaminated areas of the body which may have been exposed with soap and water. Wash thoroughly before handling food and beverages. Food and beverage consumption should be avoided in work areas where hydrocarbons are present.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear, amber

**Physical state:** Liquid

**Odor:** Lubricating Oil

**Specific gravity (H<sub>2</sub>O=1):** 0.8681

**Melting point/freezing point:** No data available

**Initial boiling point and boiling range:** >800°F

**Flash point (C.O.C):** 210°C, (410°F)

**Upper/lower flammability or explosive limits:** No data available

**Vapor pressure:** Not determined

**Solubility in water:** Soluble in hydrocarbons, emulsifies in water

**Percent volatile:** Negligible

**Liquid density:** Not determined

**Evaporation rate:** Not determined

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## 10. STABILITY AND REACTIVITY

**Reactivity:** May react strong with oxidizing agents.

**Chemical stability:** Stable under normal temperatures and pressures.

**Possibility of hazardous reactions:** Product will not undergo hazardous polymerization.

**Conditions to avoid:** Heat, open flames, oxidizing materials and mist.

**Incompatible materials:** Strong oxidizing agents, acids, halogens.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide and other oxides may be generated as products of combustion.

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## 11. TOXICOLOGICAL INFORMATION

**Acute oral toxicity:** No data available

**Acute inhalation toxicity:** No data available

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## 12. ECOLOGICAL INFORMATION

**Biodegradability:** No data available

**Bioaccumulation:** No data available

**Toxicity to fish:** No data available

**Toxicity to daphnia and other aquatic invertebrates:** No data available

**Toxicity to algae:** No data available

**Toxicity to bacteria:** No data available

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## 13. DISPOSAL CONSIDERATIONS

### Waste Disposal methods

All disposals must comply with federal, state and local regulations. Spilled or discarded material may be a regulated waste. Refer to state and local regulations. If other material was used during cleanup efforts the resultant mixture may be regulated. Department of Transportation regulations may apply for transporting of this material. Contact Universal Lubricants regarding proper recycling and disposal methods.

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## 14. TRANSPORT INFORMATION

<b>UN number:</b>	Not dangerous/hazardous goods
<b>UN proper shipping name:</b>	Not dangerous/hazardous goods
<b>Transport hazard class:</b>	Not dangerous/hazardous goods
<b>Packing group:</b>	Not dangerous/hazardous goods
<b>Environmental hazards:</b>	Not dangerous/hazardous goods
<b>U.S. DOT Road/Rail/Waterways:</b>	Not dangerous/hazardous goods
<b>Transport Canada Road/Rail/Waterways:</b>	Not dangerous/hazardous goods
<b>International Maritime Dangerous Goods:</b>	Not dangerous/hazardous goods

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## 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

## Federal Regulatory Status

### Notification Status

**EINECS** All components listed

**DSL** All components listed

**TSCA** All components listed

### SARA Hazard Categories (311/312)

No SARA 311/312 hazards

### State Regulatory Status

#### California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

### NFPA Hazard Classification

Health: 1

Flammability: 1

Reactivity: 0



### HMIS Classification

Health: 1

Flammability: 1

Physical Hazards: 0

Personal Protection: B

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>B</b>

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## 16. OTHER INFORMATION

The information accumulated herein is believed to be accurate. However, neither Universal Lubricants, LLC nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information provided herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.