



# Safety Data Sheet

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## 1. PRODUCT AND COMPANY IDENTIFICATION

### Dyna-Plex 21C Extreme Zinc Free AW ISO 46 Hydraulic Oil

Zinc Free Hydraulic Oil  
Petroleum Lubricant  
Product Code: 9228

Universal Lubricants, A PetroChoice Company  
2824 N Ohio Street  
Wichita, Kansas 67219  
Website: [www.petrochoice.com](http://www.petrochoice.com)

1-800-444-6457 Telephone  
1-316-832-3627 Product Information telephone  
1-800-633-8253 US, Canada, Puerto Rico, Virgin Island - Emergency telephone (PERS)  
+1-801-629-0667 International / Maritime Emergency telephone (PERS)

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## 2. HAZARDS IDENTIFICATION

### OSHA/HCS Status:

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of this product.

<b>Physical Hazards:</b>	Not classified
<b>Health Hazards:</b>	Not classified
<b>Environmental Hazards:</b>	Not classified
<b>Signal Word:</b>	No signal word
<b>Hazard Statement:</b>	No known significant effects or critical hazards
<b>GHS Symbol:</b>	<i>No Symbol</i>

## Precautionary Statements

<b>General:</b>	Read label before use. Keep out of reach of children. If medical advice is needed, have product information at hand.
<b>Prevention:</b>	Not applicable
<b>Response:</b>	Not applicable
<b>Storage:</b>	Not applicable
<b>Disposal:</b>	Not applicable

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms:** Zinc Free Hydraulic Oil

**Formula:** Mixture

**Molecular Weight:** Variable

Component	CAS Number	Concentration %
Base Lubricating Oils Mixture		96-98
R&O Inhibitors/AW 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

Immediately flush eyes with large amounts of fresh water and continue flushing until irritation subsides. Remove contact lenses, if present, and easy to do. Continue rinsing. Seek medical attention if irritation develops.

### Inhalation

If breathing difficulty exists, remove individual away from exposure and into fresh air. Seek medical attention.

### Skin

Remove contaminated clothing. Wash contaminated area repeatedly with soap and water. Seek medical attention if irritation develops.

### Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### 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.

### Unsuitable extinguishing media

Do not direct a solid stream of water or foam into hot, burning pools of oil liquid since this may spread fire.

### 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).

### Firefighting instructions

Cool fire exposed containers with water spray and avoid spreading burning material with water used for cooling purposes.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions and Protective equipment

Personal Protection, see section 8. Evacuate surrounding area. Keep unnecessary personnel from entering. 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.

### 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

#### Conditions for safe storage

Store in only approved and marked containers. 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 approved respiratory protection. 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 chemical 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. Contact your facility safety department or safety supplier to determine the proper protective equipment for your use.

### Hygiene measures

Thoroughly wash contaminated areas of the body which may have been exposed with soap and water. Do not use contaminated clothing, launder clothing before reuse. Properly dispose of contaminated clothing or articles that cannot be laundered such as leather gloves, boots, etc. 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):** 0.8350

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

**Initial boiling point and boiling range:** No data available

**Flash point (Cleveland Open Cup):** 216°C, (420°F)

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

**Vapor pressure:** Not determined

**Solubility in water:** Not soluble 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.

### Empty Containers

Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed.

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## 14. TRANSPORT INFORMATION

**U.S. DOT Road/Rail/Waterways:** Not dangerous/hazardous goods

**Transport Canada Road/Rail/Waterways:** 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>

**16. OTHER INFORMATION**

The information and recommendations contained within this document are believed by PetroChoice to be accurate and reliable as of the date prepared. The information and recommendations are offered for the user's consideration and analysis and in no way guarantee the chemical specifications for the specified product. It is solely the responsibility of the user to determine safe conditions for use of this product and to assume liability for any loss, damage or expense arising out of the product's improper use. The user should consider the information in this document in the context of how the selected product will be handled and used in conjunction with other products. It is the user's responsibility to determine that the product is suitable for the intended use.

Appropriate warnings and safe-handling procedures should be provided to all handlers and users. PetroChoice assumes no responsibility for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices within this document.

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