Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Dyna-Plex 21C Therma-Steel
Grease
Heavy Duty Petroleum Lubricant
Product Code: G830

Universal Lubricants, A PetroChoice Company
2824 N Ohio Street
Wichita, Kansas 67219
Website: 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)

2. HAZARD 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.

Physical Hazards: Not classified
Health Hazards: Not classified
Environmental Hazards: Not classified
Signal Word: No signal word
Hazard Statement: No known significant effects or critical hazards
GHS Symbol: No Symbol
Precautionary Statements

**General:** Read label before use. Keep out of reach of children. If medical advice is needed, have product information at hand.

**Prevention:** Not applicable

**Response:** Not applicable

**Storage:** Not applicable

**Disposal:** Not applicable

3. **COMPOSITION/ INFORMATION ON INGREDIENTS**

**Synonyms:** Heavy Duty Petroleum Lubricant, Grease

**Formula:** Mixture

**Molecular Weight:** Variable

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Lubricating Oils Mixture</td>
<td>80-90</td>
<td></td>
</tr>
<tr>
<td>Thickener Agent</td>
<td>Trade Secret</td>
<td>10-15</td>
</tr>
<tr>
<td>Additive Package</td>
<td>Trade Secret</td>
<td>10-15</td>
</tr>
<tr>
<td>Copper Powder</td>
<td>7440-50-8, (see Sec. 15)</td>
<td>1-10</td>
</tr>
</tbody>
</table>

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. Do not reuse clothing until thoroughly cleaned and laundered. 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.

5. FIREFIGHTING MEASURES

Suitable extinguishing media
Use dry chemical, foam, carbon dioxide (CO₂) 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 and other oxides may be generated as 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.

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 place into drums or any other approved and suitable containers

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

May react strong with oxidizing agents, such as hydrogen peroxide, bromine, and chromic acid.

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/m³ 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. If handling hot material, use proper insulated gloves.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black, paste
Physical state: Grease
Odor: Petroleum odor
Specific gravity (H₂O=1): 1.1900
Melting point/ freezing point: No data available
Initial boiling point and boiling range: >525°F
Flash point (Cleveland Open Cup): >221°C, (430°F)
Flammability or explosive limits (% by volume air): Lower >0.9%, Upper >7.0%
Vapor pressure: <.01
Solubility in water: No data available
Percent volatile: No data available
Vapor density (air=1): No data available
Auto-Ignition temperature: >260°C, (500°F)

10. STABILITY AND REACTIVITY

Reactivity: No data available
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 copper reactive agents.
Incompatible materials: Strong oxidizing agents and copper reactive agents.
Hazardous decomposition products: Carbon monoxide, hydrogen, toxic copper compounds may be generated as products of combustion.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: No data available
Acute inhalation toxicity: No data available
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
Mobility in soil: Spillages are unlikely to penetrate the soil under normal conditions.

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.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

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

Federal Regulatory Status

Notification Status

EI NECS All components listed
DSL All components listed
TSCA All components listed
SARA Hazard Categories (311/312)
This product contains in part raw materials and components that are subject to reporting requirements of Section 313 of Title III of the Superfund Amendments, SARA of 1986 and 40 CFR 372. Copper powder CAS NO 7440-50-8; 5M% wt

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.

<table>
<thead>
<tr>
<th>NFPA Hazard Classification</th>
<th>HMI S Classification</th>
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<tbody>
<tr>
<td>Health: 1</td>
<td>Health: 1</td>
</tr>
<tr>
<td>Flammability: 1</td>
<td>Flammability: 1</td>
</tr>
<tr>
<td>Reactivity: 0</td>
<td>Physical Hazards: 0</td>
</tr>
<tr>
<td></td>
<td>Personal Protection: B</td>
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</table>

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.

Rev. Date: 4/05/2017