1. PRODUCT AND COMPANY IDENTIFICATION

Dyna-Plex 21C Synzol LC-220 Grease
Lubricant
Product Code: 0019

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 Isl.- Emergency telephone (PERS)
+1-801-629-0667 International / Maritime Emergency telephone (PERS)

2. HAZARDS IDENTIFICATION

OSHA/HCS Status:

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification Serious Eye Damage/Eye Irritation- Category 2

Precautionary Statements

GHS LABEL ELEMENTS

Hazard Pictograms:

Signal Word: Warning
Hazard Statement: Causes Serious Eye Irritation
Appearance: Past

Physical State: Liquid
Odor: Mild
Safety Data Sheet

PRECAUTIONARY STATEMENTS

Prevention: Wash face, hands and any exposed skin thoroughly after handling
Wear eye/face protection

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Hazards not otherwise classified (HNOC)

Other information: Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity: 17.43% of the mixture consists of ingredient(s) of unknown toxicity

NFPA RATINGS: Health 1 Flammability 1 Reactivity 0

HMIS RATINGS: Health 1 Flammability 1 Reactivity 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Alkyldithiophosphate</td>
<td>4259-15-8</td>
<td>1-2.5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Eyes
Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes.
If symptoms persist, call a physician.

Inhalation
In case of inhalation of aerosol/mist consult a physician if necessary.

Skin
Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
Ingestion

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

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2), Dry powder, Water spray mist or foam

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards from combustion

Water may be used to cool closed containers.

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus pressure-demand. MSHA/NIOSH (approved or equivalent) and full protective gear.

Explosion Data

Sensitivity to Mechanical Impact: None
Sensitivity to Static Discharge: None

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

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Prevent further leakage or spillage if safe to do so.
7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Spilling onto the container’s outside will make container slippery. Avoid contact with eyes and skin.

Conditions for safe storage

Keep containers dry and tightly closed to avoid moisture absorption and contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

Contains mineral oil, vegetable oil, and/or synthetic oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg/m³, ACGIH STEL of 10 mg/m³.

APPROPRIATE ENGINEERING CONTROLS

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection: Nitrile rubber

Eye protection: Safety glasses

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect.

General Hygiene Considerations: Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Paste
Physical state: Liquid
Odor: Mild

0019 Dyna-Plex 21C Synzol LC–220 Grease
Safety Data Sheet

Color: Beige
Specific gravity \((\text{H}_2\text{O}=1)\): 0.87
Melting point/freezing point: No data available
Initial boiling point and boiling range: No data available
Flash point (Cleveland Open Cup): N/A
Upper/lower flammability or explosive limits: N/A
Vapor pressure: < 0.10 mmHg @ 20°C
Vapor Density: Not Determined
Solubility in water: Insoluble
Percent volatile: Negligible
Liquid density: Not determined
Evaporation rate: Not determined

10. STABILITY AND REACTIVITY
Reactivity: Not Applicable
Stability: Stable under normal conditions
Possibility of Hazardous Reactions: None under normal processing.
Hazardous Polymerization: Hazardous polymerization does not occur.
Conditions to Avoid: No special storage conditions required.
Hazardous Decomposition Products: Incomplete combustion may produce small amounts of carbon oxides
Incompatible Materials: Strong oxidizing agents

11. TOXICOLOGICAL INFORMATION
INFORMATION ON LIKELY ROUTES OF EXPOSURE

Product Information: Product does not present an acute toxicity hazard based on known or supplied information.

Eye contact: Irritating to eyes.

Skin contact: Substance may cause slight skin irritation.

Inhalation: Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.
Safety Data Sheet

**Ingestion:** Ingestion may cause gestational irritation, nausea, vomiting and diarrhea.

**Components:** Zinc Alkyldithiophosphate 4259-15-8
- Oral LD50: = 3100 mg/kg (Rat)
- Dermal LD50: > 5000 mg/kg (rabbit)
- Inhalation LC50: -

**INFORMATION ON TOXICOLOGICAL EFFECTS**

**Sensitization:** No sensitization responses were observed.
**Mutagenic Effects:** Did not show mutagenic or teratogenic effects in animal experiments.
**Carcinogenicity:** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
**Reproductive Toxicity:** This product does not contain any known or suspected reproductive hazards.
**STOT - Single Exposure:** None under normal use conditions.
**STOT - Repeated Exposure:** None under normal use conditions.
**Aspiration Hazard:** Not applicable.

**NUMERICAL MEASURES OF TOXICITY - PRODUCT INFORMATION**

Unknown Acute Toxicity 17.43% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

- ATEmix (oral): 2330 mg/kg
- ATEmix (dermal): 5689 mg/kg
- ATEmix (inhalation-vapor): 21059 mg/l

**12. ECOLOGICAL INFORMATION**

**ECOTOXICITY**

Harmful to aquatic life with long lasting effects
20.08595% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

**Zinc Alkyldithiophosphate - 4259-15-8**
- Algae/aquatic plants: 1.0 - 5.0: 96 h Pseudokirchneriella subcapitata mg/L EC50
- Fish: 1.0 - 5.0: 96 h Pimephales promelas mg/L LC50 static 10.0 - 35.0: 96 h Pimephales promelas mg/L LC50 semi-static
- Crustacea: - 1.5: 48 h Daphnia magna mg/L EC50

**Persistence and degradability:** No information available.
**Bioaccumulation:** No information available.
Safety Data Sheet

**Mobility:** The product is insoluble and floats on water.

**Components**

<table>
<thead>
<tr>
<th>Component</th>
<th>Partition Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Alkyldithiophosphate 4259-15-8</td>
<td>2.86</td>
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</tbody>
</table>

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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**

**DOT:** Not Regulated by any means of transportation

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**15. REGULATORY INFORMATION**

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

**INTERNATIONAL INVENTORIES**

**TSCA:** Listed in TSCA

**DSL:** All the components in this product are listed in DSL

**EINECS/ELINCS:** This product does not comply with EINECS/ELINCS

**CHINA:** This product complies with China IECSC.

**KECL:** This product does not comply with Korea KECL.

**PICCS:** This product complies with Philippines PICCS.

**AICS:** All the constituents of this material are listed on the Australian AICS

**Federal Regulatory Status**
Safety Data Sheet

Notification Status
EINECS   All components listed
DSL      All components listed
TSCA     All components listed

SARA Hazard Categories (311/312)
No SARA 311/312 hazards

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

STATE REGULATIONS (RTK)
California Proposition 65: This product does not contain any Proposition 65 chemicals

Right-To-Know Regulations:

Components: Zinc Alkyldithiophosphate 4259-15-8

NJRTK: Substance no. 3012 Listed
MARTK: Not listed
PARTK: Listed

16. OTHER INFORMATION

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
Safety Data Sheet

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**Substances**

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NFPA:**

Health: 1   Flammability: 1   Instability 0

**NFPA/HMIS * for Carc, Muta, Tera, Specific Organ * **

**HMIS health rating:**

Health: 1   Flammability: 1   Physical hazards 0   Personal protection B

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: 9/29/2017