



Safety Data Sheet

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



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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)

Component	CAS Number	Weight
Zinc Alkyldithiophosphate	4259-15-8	1-2.5

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.



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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.



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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



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Color: Beige

Specific gravity (H₂O=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.



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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 component(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.



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Mobility: The product is insoluble and floats on water.

Components

Zinc Alkyldithiophosphate 4259-15-8

Partition Coefficient

2.86

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

DOT: Not Regulated by any means of transportation

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



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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



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DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

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

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.

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