



Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Dyna-Plex 21C Synzol LC 460

Synthetic based lubricating grease

Heavy Duty Multipurpose

Product Code: 0019

PetroChoice, Inc.

1009 Schieffelin Road

Apex, North Carolina 27502

Website: www.petrochoice.com

1-800-545-1257 Supplier General Contact Number

1-800-633-8253 US, Canada, Puerto Rico, Virgin Island - Emergency telephone (PERS)

2. HAZARDS IDENTIFICATION

OSHA/HCS Status:

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

GHS Label Elements

Hazard Pictogram:



Signal Word:

WARNING

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.
Skin:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage:	Not applicable
Disposal:	Not applicable

Hazards Not Otherwise Classified (HNOC)

Other information: May be harmful if swallowed. Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity: 18.6709% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Components	CAS-No	Weight %	Trade Secret
Zinc Alkyldithiophosphate	4259-15-8	1-2.5	*

4. FIRST AID MEASURES

Eye Contact

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

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Inhalation

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

Ingestion

Do not induce vomiting without medical advice. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms: No information available

Indication of any immediate medical attention and special treatment needed

5. FIREFIGHTING MEASURES

Suitable extinguishing media

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

Unsuitable extinguishing media

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

Specific hazards arising from the chemical

Water may be used to cool closed containers.

Explosion Data

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Avoid contact with skin and eyes

Environmental precautions

Environmental precautions: Should not be released into the environment. Do not let product enter drains.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container

7. HANDLING AND STORAGE

Precautions for safe handling

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, including any incompatibilities

Storage Conditions: Keep containers dry and tightly closed to avoid moisture absorption and contamination

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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

Individual protection measures, such as 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

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

Information on basic physical and chemical properties

Appearance: Paste

Physical state: Liquid

Odor: Mild

Color: Beige

Odor threshold: No information available

pH: Not applicable

Melting point/Freezing point: No information available

Boiling point/boiling range: No information available

Flash point: No information available

Flammability (solid, gas): No information available

Upper Flammability Limit: Vapor pressure, No information available

Lower Flammability Limit: Vapor density, No information available

Evaporation rate: No information available

Flammability Limit in air: No information available

Specific gravity: 0.89

Water solubility: Insoluble in water

Solubility in other solvents: No information available

Partition Coefficient: No information available

Autoignition temperature: No information available
Decomposition temperature: No information available
Kinematic Viscosity: No information available
Dynamic Viscosity: No information available
Explosive properties: No information available
Oxidizing properties: No information available
Softening point: No information available
Molecular weight: No information available
VOC Content (%): No information available
Density: No information available
Bulk density: No information available

10. STABILITY AND REACTIVITY

Reactivity: Not applicable
Chemical 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.
Incompatible materials: Strong oxidizing agents.
Hazardous decomposition products: Incomplete combustion may produce small amounts of carbon oxides.

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

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

Eye contact: Irritating to eyes.

Skin contact: Substance may cause slight skin irritation.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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: 18.6709% 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): 2853 mg/kg

ATEmix (dermal): 15624 mg/kg

ATEmix (inhalation-vapor) 37875 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic life with long lasting effects

21.5909% 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 - 1.5: 48 h Daphnia magna mg/L EC50

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: The product is insoluble and floats on water.

Components	Partition coefficient
Zinc Alkyldithiophosphate - 4259-15-8	2.86

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of wastes: Dispose of in accordance with federal, state, and local regulations

Contaminated packaging: Do not reuse container.

14. TRANSPORT INFORMATION

DOT: Not Regulated by any means of transportation

15. REGULATORY INFORMATION

International Inventories

TSCA: Listed in TSCA

DSL: All of 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 Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 Threshold
Zinc Alkyldithiophosphate - 4259-15-8	Zinc Compounds (1%)

SARA Hazard Categories (311/312)

Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire Hazard: No
Sudden Release of Pressure Hazard: No
Reactive Hazard: No

CWA (Clean Water Act)

This product contains the following substances which are regulated 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

U.S. State Regulations (RTK)

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

This product does not contain any Proposition 65 chemicals.

U.S. State RTK Regulations:

Components	NJRTK	MARTK	PARTK
Zinc Alkyldithiophosphate-4259-15-8	Substance no. 3012 Listed	Not Listed	Listed

U.S. EPA Label Information

EPA Pesticide Registration Number: Not applicable

NFPA Hazard Classification:

Health: 1
Flammability: 1
Reactivity: 0

HMIS Classification:

Health: 1
Flammability: 1
Physical Hazards: 0
Personal Protection: B



HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	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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