



Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Dyna-Plex 21C Extreme Green NLGI 1, 2

Heavy Duty Calcium Sulfonate Grease

Intended Use: Industrial Applications

Product Code: 0012

PetroChoice

1009 Schieffelin Road

Apex, NC 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)

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

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.

No significant hazard as per GHS

Health Hazards:

Not expected to be a health hazard when used under normal conditions. Prolonged or repeated skin contact without proper cleaning may clog the skin pores resulting disorders like acne/folliculitis. Used grease may contain harmful impurities/ harmful extraneous substances.

Safety Hazard: Not classified as flammable, but will burn.

Environmental Hazards: Not classified as environmental hazard under GHS criteria.

Precautionary Statements

Prevention: Wear protective gloves while handling. Wear eye and face protection. Wash hands thoroughly after handling.

Response: If on skin, wash with plenty of soap and water. Remove contaminated cloth and wash thoroughly before use. If skin irritation occurs, get medical advice. If in eyes, wash with water for several minutes, in case of contact lenses, remove and wash with plenty water. In case of irritation, get medical attention.

Storage: Store the product in well-ventilated area. Keep the container straight lid upside. Do not lay down upside down or do not keep container horizontally. This product has natural tendency to squeeze oil if not kept properly.

Disposal: Take expert advice of local regulatory agency for disposing this product.

Hazards not otherwise classified (HNOC):

None as classified under 29 CFR 1900.1200

NFPA Ratings:

Health: 1
Flammability: 1
Reactivity: 0

HMIS Ratings:

Health: 0
Flammability: 1
Reactivity: 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is defined as mixture and has no known hazards under GHS classification.

Additional information:

As per 29 CFR 1910.1200 paragraph (i), formulation is considered as trade secret and therefore specific chemical names and their percentages of components used have not been disclosed. The details about their specific chemical names and their percentages may be provided on request to health professionals, authorized representatives of regulatory authority, employees concerned in accordance with applicable provisions of this paragraph.

4. FIRST AID MEASURES

General Information: Not expected to be a health hazard if used under normal conditions.

Inhalation

Under normal conditions of intended use, this material is not expected to be an inhalation hazard. If some symptoms exist, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

Skin Contact

Remove contaminated clothes. Flush exposed area with plenty of water followed by washing by soap, if available. If persistent irritation occurs, obtain medical attention. If product is injected into or under the skin due to any reason, the victim, regardless of size or appearance of wound, should be brought immediately to medical attention for emergency surgical needs. Though the initial symptoms due to high pressure injection may be minimal / absent, early surgical treatment may significantly reduce the extent of injury.

Eye Contact

Immediately flush with large quantities of cool water for at least 15 minutes. Get medical attention.

Ingestion

In general, no treatment is necessary unless large quantities are swallowed, however, it's advisable to take medical attention. Do not induce vomiting unless directed by medical personnel. Do not give anything by mouth by an unconscious person.

Self-protection for first aider

When administering the first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Water Spray (fog), dry chemical, foam, or carbon dioxide, sand to extinguish flames.

Unsuitable extinguishing media

Water stream may splash burning liquid and spread fire.

Special hazard arising from the substances or mixture

Hazardous combustion product may include a complex mixture of airborne solid and liquid particulates and gases (smoke), carbon monoxide, unidentified inorganic and organic compounds.

Advice to firefighters

Proper protective equipment includes chemical resistant gloves to be worn, chemical resistant suit is recommended when large contact with spill product is expected. Self-contained breathing apparatus (SCBA) must be worn when approaching a fire in confined area. Select the fire fighters clothing approved by relevant standard.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch and walk through spill area. Do not touch damaged container or spilled material unless wearing appropriate protective clothing/equipment. Ventilate the closed area.

Emergency procedures

Isolate the spill / leak area in all directions for about 50 meters (150 ft) for liquids and about 25 meters (75 ft.) for solids and semi-solids. Eliminate all ignition sources (no smoking, flares, sparks / flames in close vicinity). Keep unauthorized person away and ventilate closed space before entering.

Environmental precautions

Use appropriate measures for containment of spilled material to the environment. Prevent from entering/ spreading to drain, water, river, ditches by using sand, earth, floor dryers or other appropriate barriers.

Methods and materials for containment and cleaning up

Shovel into suitable properly marked container for disposal or reclamation in accordance with local regulations.

Reference to other sections

Refer to section 8 – exposure control / personal protection and section 13- disposal considerations.

7. HANDLING AND STORAGE

General Precautions

Store in well-ventilated area, if risk on vapor inhalation is there. Use the information in this data sheet as input for risk management arising due to local conditions which help to manage safe handling of this product.

Precautions for safe handling

Avoid prolonged and repeated contact with skin. Avoid inhaling the vapors/mist. When handling the drums, kegs, pails etc., proper safety shoes, and other protective clothes, safety glasses etc. should be worn. Dispose appropriately any contaminated rags/material as per prevailing local allowable practices. Keep containers in closely tight and, cool and well-ventilated areas.

Conditions for safe storage, including any incompatibilities

Keep containers tightly close, well-ventilated areas but covered, avoiding contact with rain or other water ingress possibilities. Keep the storage place cool preferably <120 °F / <50 °C. Higher temperature may create pressure buildup inside container and chances of container busting or leakage may occur under aggravated conditions. Keep away from other oxidizing and incompatible materials.

Specific End Use(s):

This material should not be used for any other purpose than the intended use as per section 1 without the expert advice.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Material	Source	Type	ppm	mg/m ³	Notation
Mineral Oil Mist	TWA (mist) ACGIH	Ceiling		5.0 mg/m ³	

Additional information

Due to semi-solid nature of the product, generation of mist and dusts is unlikely to occur.

Biological exposure index (BEI)

No biological limit allocated

PNEC related information

Data not available

Monitoring methods

Monitoring of the concentration of substances in the breathing zone of workers or in general workplace may be required to confirm the compliance with local governing authority.

Engineering measures/controls

Adequate ventilation systems may be needed to control concentrations of airborne contaminants above permissible threshold applicable limits.

Personal protective equipment pictograms



Respiratory

In case of insufficient ventilation, use suitable respiratory equipment.

Eye/Face: Wear safety goggles

Skin/Body: Wear safety shoes and protective gloves.

Environmental exposure controls

Minimize release to the environment. Follow best practices for site management and disposal of waste as per local regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Semi-solid

Color: Green

Odor: Slight hydrocarbon

Odor threshold: Data not available

Boiling point: No data available

pH: Not applicable

Specific Gravity (15°C): 0.87, 7.506 (lbs/gal)

Flash point (Cleveland Open Cup): 400°F, (204°C)

Upper/lower flammability limits: No data available

Auto-ignition temperature: No data available

Flammability: No data available

VOC, % wt., ASTM D-92: 1

Vapor pressure @ ambient temp.: < 0.13 kPa (< 1 mm Hg)

Vapor density (air=1): < 1

Explosive properties: Not classified

Oxidizing properties: No data available

Other Information

Electrical conductivity

Though no data available, this material is not expected to be a static accumulator

10. STABILITY AND REACTIVITY

Reactivity:

No reactivity is expected under normal conditions of intended use. However, under high temperature or adverse operating conditions thermal / chemical decomposition of the product may be possible.

Chemical stability: No hazardous reaction is expected under normal conditions of temperature and pressure.

Possibility of hazardous reactions: Hazardous polymerization is not expected. Reacts with strong oxidizing agents.

Conditions to avoid: Extreme temperature and direct sunlight / heat /flame.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Hazardous decomposition is not expected to form under normal conditions of storage.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Basis of assessment

Information given hereby is based on the components and the toxicology of similar products and the data indicated here are representative of mainly base oil which is present in majority

Acute oral toxicity: Expected to be low toxicity; LD 50 (rat) > 5000 mg/kg (literature)

Acute dermal toxicity: Expected to be low toxicity; LD 50 (rat) > 3000 mg/kg (literature)

Acute inhalation toxicity: Not determined

Skin corrosion/irritation

Expected to be slightly irritating. prolonged/repeated contact with skin without adequate cleaning may clog the pores of the skin, may result disorder such as oil acne/folliculitis

Serious eye damage/irritation: Expected to be slightly irritating

Respiratory/skin sensitization: Not determined

Aspiration hazard: Not determined

Germ cell mutagenicity: Not determined

Carcinogenicity

Not considered to be carcinogenic as it contains severely hydrotreated mineral oils which are reported to be non-carcinogenic in lab animal studies. The class of oils used in making this product are not classified as carcinogenic by IARC

Material	Carcinogenicity Classification
Highly refined base oil blend (IP 346 < 3%)	ACGIH group A4; Not classified as human carcinogen
	IARC 3; Not classified as a carcinogen to humans
	GHS / CLP, No carcinogenicity classification

Based on our raw material suppliers information/SDS, this material is not known to contain any chemical listed as a carcinogen or suspected carcinogen by OSHA Hazard Communication Standard 29CFR 1910.1200, IARC, or the National Toxicology Program (NTP).

12. ECOLOGICAL INFORMATION

Basis of assessment

Eco-toxicological data has not been determined specifically on this product. The information given herewith are based on the information given on eco-toxicity of components and/or on similar products. The information given here are representative of the product as whole and not as individual components.

Toxicity

Sparingly soluble mixture in aqueous media. Not toxic to fish but may coat gill structure and cause suffocation if spilled. This product may cause gastrointestinal distress in birds and mammals through ingestion.

Persistence and degradability:

Expected to be not readily biodegradable. The major oil component expected to biodegrade over period of 100-120 days in aerobic environment at temperature above 70 F (21 °C), however finished product contains component that may persist in the environment.

Bioaccumulative potential

May contain component that bioaccumulate

Mobility in soil

Product is semi-solid in nature in most conditions and may absorb to soil and may not be mobile. It floats on water.

Other adverse effects

Product contain the components that have been classified non-volatile in nature and therefore not expected to release to environment in significant quantities.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods and product disposal

Try to minimize the product waste by using best applicable practices. It is the responsibility of the waste generator to evaluate the waste classification and appropriate disposal methodology in accordance with the applicable regulation. Do not dispose in to environment, in drain or in river / ponds / water reservoirs.

Container Disposal

To be disposed in accordance with local prevailing and allowable regulations.

14. TRANSPORT INFORMATION

	Bulk Shipping	Non-Bulk Shipping	Identification #	Hazardous Class
US DOT	Not Required	Not Required	Not Required	Not Required
Canadian TDG	Not Required	Not Required	Not Required	Not Required
European	Not Required	Not Required	Not Required	Not Required
ADR, IMDG, IATA-DGR	Not classified as hazardous product for land, sea and air transport			

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard

This material is not considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

TSCA Inventory List: All components are listed

SARA Ext Haz. Sub.

This substance does not contain > 1.0 % of any chemical substance on SARA extremely hazardous substance list.

SARA 313

This product doesn't contain > 1.0 % (> 0.1 % for carcinogenic substance) of any chemical substances listed under SAR 313.

Classification

Immediate (acute) health hazard, delayed (chronic) health hazard.

Component	Fire Hazard	Sudden release of pressure	Reactive	Acute health hazard	Delayed health hazard
Base Oil	No	No	No	No	Yes
Calcium Dodecyl benzene sulfonate	No	No	No	Yes	Yes

California Prop 65

This product doesn't intentionally contain any chemical known by state of California to cause cancer and/or birth defects.

WHMIS: This product is not a controlled product;

Canadian NPRI: none of the components are listed

CEPA toxic substance: none of the components are listed

Canadian (NDSL): All components are listed

Australia Inventory (AICS): All components are listed or exempted

China Inventory (IECSC): All components are listed

Japan Inventory: All components are listed or exempted

Korea Inventory: All components are listed

Malaysia Inventory (EHS Register): Not determined

New Zealand inventory of Chemicals (NZIoC): All components are listed or exempted

Philippines Inventory (PICCS): All components are listed or exempted
Taiwan Inventory (CSNN): Not determined

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: 01/05/2018