



Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Dyna-Plex 21C EDM Oil

Dielectric fluid

Product Code: 14815

Miller Industrial Fluids, A PetroChoice Company

1751 W. Raymond Street

Indianapolis, Indiana 46221

Website: www.petrochoice.com

1-317-634-7300 Telephone

1-800-424-9300 US, Canada, Puerto Rico, Virgin Island - Emergency telephone (CHEMTREC)

+1-703-527-3887 International / Maritime Emergency telephone (CHEMTREC)

2. HAZARDS IDENTIFICATION

OSHA/HCS Status:

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

Classification of the substance or mixture:

Aspiration Hazard – Category 1

GHS Label Elements

Hazard Pictogram:



Signal Word:

DANGER

Hazard Statement:

H304 – May be fatal if swallowed and enters airways.

Precautionary Statements

- Prevention:** Do not breathe gas/mist/vapors/spray.
- Response:** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. If exposed or concerned: Get medical advice/attention.
- Storage:** Store locked up.
- Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Other Hazards:** None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: None
Formula: Mixture
Other means of identification: None
CAS Number/other identifiers: None

Component	CAS Number	Concentration %
Hydrotreated middle distillate	64742-46-7	80-100

4. FIRST AID MEASURES

Eye Contact:

Rinse immediately with water. Remove contact lenses, if safe and possible to do. Continue rinsing with water for at least 15 minutes. Keep impacted eye(s) wide open while rinsing. If eye irritation persists, consult a specialist.

Inhalation

Move person to an area with fresh air if breathing is difficult. Keep person at rest in a position comfortable for breathing. If symptoms persist, call a physician.

Skin contact

Take off contaminated clothing and shoes immediately. Wash off affected area with plenty of soap and water. If symptoms persist, call a physician.

Ingestion

Rinse mouth with plenty of water and drink plenty of water afterwards. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most Important Symptoms/Effects, Acute and Delayed:

Defatting of the skin.

Indication of any immediate medical attention and special treatment needed:

If necessary, treat symptomatically

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Unsuitable extinguishing media

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

Specific hazards arising from the chemical

No unusual fire or explosion hazards noted.

Special protective equipment and precautions for fire-fighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. If significant spillages cannot be contained, local authorities should be advised.

Environmental precautions

Prevent entry into waterways, sewer, basements or confined areas. Avoid discharge to the aquatic environment. Avoid discharge into drains, watercourses or onto the ground. If the product contaminates rivers and lakes or drains, then inform the respective authorities.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where possible. Absorb in vermiculite, dry sand or other non-combustible absorbent material then place into containers. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Do not breathe dust, fume, gas, mist, vapors or spray. Wash hands after handling and before eating. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. All handling should take place in well-ventilated area. Shower after work. Remove and wash contaminated clothing promptly. Advice on general occupational hygiene

Conditions for safe storage

Store locked up. Keep away from heat, sparks and open flame. Store in a well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

OSHA

Component	Type	Value
Hydrotreated middle distillate	PEL	5 mg/m ³

ACGIH

Component	Type	Value
Hydrotreated middle distillate	TWA	5 mg/m ³

NIOSH

Component	Type	Value
Hydrotreated middle distillate	STEL TWA	10 mg/m ³ 5 mg/m ³

Appropriate engineering controls:

Adequate ventilation should be provided whenever the material is heated or mists are generated. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Individual protection measures, such as personal protective equipment:

Eye/face protection

Goggles/face shield are recommended.

Hand protection: Polyvinyl alcohol or nitrile-butyl-rubber gloves are recommended.

Skin & body protection: Chemical/oil resistant long-sleeve clothing is recommended. Launder contaminated clothing before reuse.

Respiratory protection

If vapors/mist concentration exceed the exposure limit(s), an appropriate certified respirator must be used.

General Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear

Physical state: Liquid

Odor: Hydrocarbon-like

Odor Threshold: Not available

pH: Not applicable

Melting point/freezing point: Not available

Initial boiling point and boiling range: >493°F (256.1°C)

Flash point (Cleveland Open Cup): >285°F (140.6°C) ASTM D92

Evaporation rate: <1 (nBuAC=1)

Flammability (solid, gas): Not available

Lower/upper flammability or explosive limits:

Flammability limit

Lower %: Not available

Upper %: Not available

Explosive Limit

Lower %: Not available

Upper %: Not available

Vapor pressure: Not available

Vapor density: Not available

Relative density: 0.85 @ 60°F (15.56°C)

Solubility: Insoluble

Partition Coefficient (n-octanol/water): Not established

Auto-ignition Temperature: 455°F (235°C) ASTM E659

Decomposition Temperature: Not available

Viscosity: 5 cSt @ 104°F (40°C) ASTM D445

10. STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: The product is stable.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to avoid: Heat, flames and sparks. Avoid temperatures that exceed the flash point.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Decomposition products include carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Ingestion: May cause gastrointestinal discomfort if swallowed. Do not induce vomiting. Vomiting may increase risk of product aspiration.

Inhalation: May be fatal if swallowed and enters airways.

Skin Contact: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Eye Contact: May be irritating to eyes.

Symptoms related to the physical, chemical and toxicological characteristics

Defatting of the skin. Coughing. Shortness of breath. Discomfort in the chest.

Information on Toxicological Effects

Acute Toxicity: Not applicable

Skin Corrosion/Irritation: May cause defatting of the skin, but is neither an irritant nor a sensitizer.

Serious Eye Damage/Eye Irritation: May cause minor irritation to eyes.

Respiratory or Skin Sensitization:

Respiratory Sensitization: Not classified.

Skin Sensitization: Not classified.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product's components are not considered to be carcinogenic by IARC, ACGIH, NTP or OSHA. Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346.

Reproductive Toxicity: Contains no ingredient listed as toxic to reproduction.

Specific Target Organ Toxicity (single exposure): Not classified

Specific Target Organ Toxicity (repeated exposure): Not classified

Aspiration hazard: May be fatal if swallowed and enters airways.

Chronic effects: Prolonged or repeated contact may cause drying and cracking of the skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not expected to be harmful to aquatic organisms.

Persistence and Degradability: Not inherently biodegradable.

Bioaccumulative Potential: No information available.

Mobility in Soil: No information available.

Other Adverse Effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal methods

Disposal of waste material should comply with all local, state, federal and provincial environmental regulations. See Section 7 for safe handling procedures and section 8 for personal protective equipment recommendations. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Empty containers or liners may retain some product residues. Follow label warnings even after container is emptied. Avoid contact of any spilled material or runoff with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

DOT: Not regulated as a dangerous good.

IMDG: Not regulated as a dangerous good.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304:

Composition/Information on Ingredients

No products were found

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

SARA 313:

No products were found

CERCLA:

No products were found

State Regulations

California Proposition 65

No components are listed.

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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