

SAFETY DATA SHEET



Dyna-Plex 21C Semi-Kut 70

Conforms to HazCom 2012

Section 1 – Identification

Product Identifier: Dyna-Plex 21C Semi-Kut 70

Other means of identification: Not available

Recommended use: Metalworking

Supplier Information:

Miller Industrial Fluids, A PetroChoice Company
1751 W. Raymond Street
Indianapolis, IN 46221
Phone: (317) 634-7300
Fax: (317) 636-6761

Email: customerservice@millerif.com

Website: www.petrochoice.com

Emergency: CHEMTREC, U.S.: 1-800-424-9300

International: +1-703-527-3887

Hours of Operation: 8am – 5pm

Section 2 – Hazards Identification

GHS Classification: Serious Eye Damage/Eye Irritation – Category 1
Skin Corrosion/Irritation – Category 1
Skin Sensitization – Category 1

GHS Label Elements



Hazard pictograms:

Signal Word: Danger.

Hazard Statement: Causes serious eye damage.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

Precautionary Statements

Prevention: Do not breathe gas, mists, vapors or spray.
Wear chemical resistant gloves, protective clothing, eye protection and face protection.

Contaminated work clothing must not be allowed out of the workplace.

Wash thoroughly after handling with plenty of soap and water.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.

If skin irritation or rash occurs, get medical attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a poison center or physician.

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, seek medical attention.

Storage: Store locked up.

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Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other Hazards: None known.

Section 3 – Composition/Information on Ingredients

Substance/Mixture: Mixture

Chemical Name: None

Other means of

Identification: None

CAS number/other

Identifiers: None

Component Name	Percent	CAS Number
Petroleum distillates, hydrotreated heavy naphthenic	10-15	64742-52-5
Petroleum distillates, hydrotreated light naphthenic	5-10	64742-53-6
2-Aminoethanol	10-15	141-43-5
Ethanolamine and triethanolamine borate	5-10	68512-53-8
Sodium Sulfonate	1-5	Confidential
Alkanolamide	1-5	Confidential
Nonylphenol ethoxylated	1-5	9016-45-9
4-(2-Nitrobutyl)morpholine	1-5	2224-44-4
Carbamic acid, butyl-, 3-iodo-2-propynyl ester	0.1-1	55406-53-6

Section 4 – First Aid Measures

Description of necessary first aid measures:

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses, if safe and possible to do. Protect unharmed eye. Keep impacted eye(s) wide open while rinsing. Seek medical attention.

Inhalation: Move person to an area with fresh air. If breathing has stopped, give artificial respiration and call for emergency services immediately.

Skin Contact: Take off contaminated clothing and shoes immediately. Wash off 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. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If large quantities are swallowed, call a physician immediately.

Most Important Symptoms/Effects, Acute and Delayed:

Eyes: May cause pain, redness, excessive tearing, light sensitivity and decrease of vision.

Skin: May cause pain, blisters and inflammation.

Indication of any immediate medical attention and special treatment needed:

If necessary, treat symptomatically.

Section 5 – Fire-fighting Measures

Extinguishing Media

Suitable Extinguishing Media: Use water fog or spray, foam, dry chemical or carbon dioxide (CO₂).

Unsuitable Extinguishing Media: None known.

Special Hazards arising from this mixture: Thermal decomposition products include oxides of carbon, nitrogen and sulfur.

Special protective equipment and precautions for firefighters: Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Section 6 – Accidental Release Measures

Personal Precautions, Protective Equipment, Emergency Procedures: Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and Materials for Containment and Cleaning up: Stop the flow of material, if this is without risk. Dike the spilled material, where possible. Absorb with an inert absorbent material and place in a suitable container for disposal. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions: Do not let product enter drains, sewer, rivers or lakes.

Section 7 – Handling and Storage

Precautions for Safe Handling: Wash hands after handling and before eating. Do not get this material in contact with eyes. Avoid contact with skin. Remove and wash contaminated clothing promptly.

Conditions for Safe Storage: Keep container tightly closed in a dry and well-ventilated place.

Section 8 – Exposure Controls/Personal Protection

Occupational Exposure Limits:

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ACGIH

Material	Type	Value
Oil mist	TWA	5 mg/m ³
Triethanolamine	TWA	5 mg/m ³
Morpholine	TWA	20ppm
1-Nitropropane	TWA	25ppm

OSHA

Material	Type	Value
Oil mist	TWA	5 mg/m ³
Morpholine	TWA	20ppm
1-Nitropropane	TWA	25ppm

NIOSH

Material	Type	Value
Oil mist	TWA	5 mg/m ³
	STEL	10 mg/m ³
Morpholine	TWA	70 mg/m ³
1-Nitropropane	TWA	25ppm

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: Neoprene or nitrile rubber gloves are recommended.

Skin & Body Protection: Chemical 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 Considerations: 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.

Section 9 – Physical and Chemical Properties

Appearance: Clear, light amber

Physical State: Liquid

Odor: Mild

Odor Threshold: Not Available

pH: 9 - 10

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Melting/Freezing Point:	32°F (0°C)
Initial Boiling Point:	Not Available
Flash Point:	>392 °F (200°C)
Evaporation Rate:	Not Available
Flammability (solid,gas):	Not Available
Upper/Lower 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:	1.03 @60°F (15.56°C)
Solubility (water):	Miscible
Partition Coefficient	
(n-octanol/water):	Not Available
Auto-ignition Temperature:	>400 °F (204.4°C)
Decomposition Temperature:	Not Available
Viscosity:	Not Available

Section 10 – Stability and Reactivity

Reactivity:	No data available.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to Avoid:	Temperatures above the flash point. Do not store near open flame.
Incompatible Materials:	Strong acids and oxidizing agents.
Hazardous Decomposition Products:	Oxides of sulfur, carbon, and nitrogen.

Section 11 – Toxicological Information

Information on Likely Routes of Exposure

Ingestion:	May cause severe gastrointestinal irritation or burning and discomfort if swallowed. Do not induce vomiting.
Inhalation:	May cause damage to the eyes and respiratory tract.
Skin Contact:	May cause burns to the skin.
Eye Contact:	May cause serious damage of the eyes.

Symptoms Related to the Physical, Not Available

Chemical and Toxicological

Characteristics:

Information on Toxicological Effects

Acute Toxicity:

Component Name	Test	Species	Dose
2-Aminoethanol	LD50 Oral	Rat	1,515 mg/kg
	LD50 Dermal	Rabbit	2,504 mg/kg
	LC50 Inhalation	Rat	>1.3 mg/L, 6hrs
Triethanolamine	LD50 Oral	Rat	6400 mg/kg
	LD50 Dermal	Rabbit	>2000 mg/kg
Nonylphenol ethoxylated	LD50 Oral	Rat	5,000 mg/kg
	LD50 Dermal	Rabbit	2573 mg/kg
4-(2-Nitrobutyl)morpholine	LD50 Oral	Rat	620 mg/kg
	LD50 Dermal	Rabbit	420 mg/kg
	LC50 Inhalation	Rat	>2.33 mg/L, 4hrs
Carbamic acid, butyl-,3-iodo-2-propynyl ester	LD50 Oral	Rat	1,400 mg/kg
	LD50 Dermal	Rabbit	>2,000 mg/kg
	LC50 Inhalation	Rat	0.67 mg/L, 4 hrs

Skin Corrosion / Irritation:

May cause burns to skin.

Serious Eye Damage / Eye Irritation:

May cause serious damage to eyes.

Respiratory or Skin Sensitization

Respiratory Sensitization:

No data available.

Skin Sensitization:

No data available.

Mutagenicity:

No data available.

Carcinogenicity:

No data available.

Reproductive Toxicity:

No data available.

Specific Target Organ Toxicity

Not classified

- **Single Exposure**

Specific Target Organ Toxicity

Not classified

- **Repeated Exposure**

Aspiration Hazard

Not classified

Potential Chronic Health Effects:

General:

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Numerical Values of Acute Toxicity:

Exposure Route	ATE
Oral	2941 mg/kg
Dermal	3427 mg/kg
Inhalation	71 mg/L

Section 12 – Ecological Information

Ecotoxicity:

Component	Test	Species	Dose
2-Aminoethanol	LC50, 96h	Carassius auratus	170 mg/L
	EC50, 48h	Daphnia magna	65 mg/L

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Nonylphenol ethoxylated	LC50, 96h EC50, 48h	Pimephales promelas Daphnia magna	1.2-9.3 mg/L 1.6-10 mg/L
Triethanolamine	LC50, 96h	Fish	11,800 mg/L
4-(2-Nitrobutyl)morpholine	LC50, 96h EC50, 48h	Oncorhynchus mykiss Daphnia magna	1.1 mg/L 1.9 mg/L
Carbamic acid, butyl-,3-iodo-2-propynyl ester	LC50, 96h EC50, 48h	Pimephales promelas Daphnia magna	0.2 mg/L 0.16 mg/L

Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.
Other Adverse Effects: No data available.

Section 13 – Disposal Considerations

Disposal Instructions: 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.

Section 14 – Transport Information

DOT: Not regulated as a dangerous good.
IMDG: Not regulated as a dangerous good.

Section 15 – Regulatory Information

U.S. Federal Regulations: This product is considered hazardous 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 311/312 Hazard Categories:

Acute Health Hazard	Yes
Chronic Health Hazard	Yes

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Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313:

The following components are subject to reporting levels established by SARA Title III, Section 313:

Component	CAS Number
Carbamic acid, butyl-, 3-iodo-2-propynyl ester	55406-53-6
2,2'-iminodiethanol	111-42-2

CERCLA:

Component	CAS Number	Component RQ (lbs)
1,4-Dioxane	123-91-1	100
2,2'-iminodiethanol	111-42-2	100

State Regulations:

California Proposition 65

Warning: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

Component	CAS Number	Cancer	Reproductive
2,2'-iminodiethanol	111-42-2	Yes	No

Section 16 – Other Information

Date of Preparation: 12/13/16
Date of Last Revision: 12/13/16
Version: 1.0

Notice to reader:

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release. The information is not considered as a warranty or quality specification. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

End of Safety Data Sheet
