1. PRODUCT AND COMPANY IDENTIFICATION

Dyna-Plex 21C Draw-Tek 920
Metalworking Fluid
Product Code: 14869

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:
- Serious Eye Damage/Eye Irritation – Category 1
- Skin Corrosion/Irritation – Category 2
- Skin Sensitization – Category 1

GHS Label Elements
Hazard Pictogram:

Signal Word: DANGER
Hazard Statement: H318 – Causes serious eye damage.
H315 – Causes skin irritation.
H317 – May cause an allergic skin reaction
Precautionary Statements

Prevention: Wear protective gloves, protective clothing, eye protection and face protection. Wash thoroughly after handling with plenty of soap and water. Avoid breathing gas, mist, vapors or spray. Contaminated work clothing should not be allowed out of the workplace.

Response: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before reuse. 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: Not applicable

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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Concentration %</th>
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</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic</td>
<td>64742-52-5</td>
<td>5-10</td>
</tr>
<tr>
<td>Sodium sulfonate</td>
<td>Confidential*</td>
<td>1-5</td>
</tr>
<tr>
<td>Ethanolamine and triethanolamine borate</td>
<td>68512-53-8</td>
<td>1-5</td>
</tr>
<tr>
<td>Alkyl alkanolamine</td>
<td>Confidential*</td>
<td>5-10</td>
</tr>
<tr>
<td>Alkyl phosphate</td>
<td>52933-07-0</td>
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</tr>
<tr>
<td>2-aminoethanol</td>
<td>141-43-5</td>
<td>1-5</td>
</tr>
<tr>
<td>Alcohols, C12-15, ethoxylated propoxylated</td>
<td>68551-13-3</td>
<td>1-5</td>
</tr>
<tr>
<td>4-(2-Nitrobutyl)morpholine</td>
<td>2224-44-4</td>
<td>0.1-1</td>
</tr>
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</table>

*The specific chemical identity has been withheld as a trade secret.
4. FIRST AID MEASURES

Eyes
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 inflammation.

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
None known.

Specific hazards arising from this mixture
Thermal decomposition products include oxides of carbon, nitrogen and phosphorus.

Special protective equipment 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.

Environmental precautions

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

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.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

OSHA

<table>
<thead>
<tr>
<th></th>
<th>PEL</th>
<th>TWA</th>
</tr>
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<tbody>
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<td></td>
<td></td>
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<tr>
<td>heavy naphthenic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-aminoethanol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Morpholine</td>
<td></td>
<td></td>
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ACGIH

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<th>STEL</th>
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<td></td>
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<tr>
<td>Morpholine</td>
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<td></td>
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NIOSH

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<tr>
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<th>STEL</th>
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<td>heavy naphthenic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Morpholine</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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 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: Light amber, Clear
Physical state: Liquid
Odor: Mild
Odor Threshold: Not available
pH: 9
Melting point/freezing point: 32°F (0°C)
Initial boiling point and boiling range: 212°F (100°C)
Flash point (Cleveland Open Cup): None prior to boiling.
Evaporation rate: Not available
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: 1.00 @ 60°F (15.56°C)
Solubility: Complete
Partition Coefficient (n-octanol/water): Not available
Auto-ignition Temperature: 260°C (500°F)
Decomposition Temperature: Not available
Viscosity: Not available

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: Extreme temperatures.
Incompatible materials: Strong acids and oxidizing agents.
Hazardous decomposition products: Oxides of phosphorous, carbon, and nitrogen.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

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

Inhalation: May cause irritation of the eyes and respiratory tract.

Skin Contact: May cause irritation of the skin.

Eye Contact: May cause serious damage of the eyes.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics:

Not available.

Information on Toxicological Effects

Acute Toxicity:

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Test</th>
<th>Species</th>
<th>Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium sulfonate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;5000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;2000 mg/kg</td>
</tr>
<tr>
<td>Alkyl alkanolamine</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>4,250 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;2000 mg/kg</td>
</tr>
<tr>
<td>Alkyl phosphate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;2000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;2000 mg/kg</td>
</tr>
<tr>
<td>2-aminoethanol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1,515 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>2,504 mg/kg</td>
</tr>
<tr>
<td>Alcohols, C12-15, ethoxylated propoxylated</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1,900 mg/kg</td>
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<tr>
<td></td>
<td>LD50 Dermal</td>
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<tr>
<td>4-(2-Nitrobutyl)morpholine</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>620 mg/kg</td>
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<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>420 mg/kg</td>
</tr>
</tbody>
</table>

Skin Corrosion/Irritation: May be irritating 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:
  Single Exposure: Not classified
  Repeated Exposure: Not classified
Aspiration hazard: Not classified
  known significant effects or critical hazards.
Potential chronic health effects
  General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

12. ECOLOGICAL INFORMATION

Exotoxicity:

<table>
<thead>
<tr>
<th>Component</th>
<th>Test</th>
<th>Species</th>
<th>Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-aminoethanol</td>
<td>LC50, 96h</td>
<td>Cyprinus carpio</td>
<td>349 mg/L</td>
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<tr>
<td></td>
<td>EC50, 48h</td>
<td>Daphnia magna</td>
<td>65 mg/L</td>
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<tr>
<td>4-((2-Nitrobutyl)morpholine</td>
<td>LC50, 96h</td>
<td>Oncorhynchus mykiss</td>
<td>1.1 mg/L</td>
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<tr>
<td></td>
<td>EC50, 48h</td>
<td>Daphnia magna</td>
<td>3.23 mg/L</td>
</tr>
</tbody>
</table>

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

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 considered hazardous as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

United State Inventory: All components are listed or exempted.
(TSCA 8b)

SARA 302/304:
Composition/Information on Ingredients
No products were found

SARA Hazard Categories (311/312)

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

SARA 313:
This material does not contain any chemical components that exceed the threshold reporting levels established by SARA Title III, Section 313.

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.

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Caner</th>
<th>Reproductive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethanolamine</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
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: 7/3/2017