

# Safety Data Sheet

# 1. PRODUCT AND COMPANY IDENTIFICATION

Dyna-Plex 21C Kleen-Eze 440C

Alkaline cleaner

Product Code: 14884

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:** Skin Corrosion/Irritation – Category 1

Serious Eye Damage/Eye Irritation - Category 1

**GHS Label Elements** 

**Hazard Pictogram:** 



Signal Word: DANGER

**Hazard Statement:** H314 – Causes severe skin burns and eye damage.

H315 - Causes skin irritation

H318 – Causes serious eye damage

# **Precautionary Statements**

**Prevention:** Do not breath dusts or mists. Wear eye protection/face protection. Wash

thoroughly after handling. Wear protective gloves and clothing.

**Response:** IF SWALLOWED, rinse mouth. DO NOT induce vomiting. IF ON SKIN (or

hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a physician.

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 %
Triethanolamine	102-71-6	10-15
Ethanolamine and triethanolamine borate	68512-53-8	1-5
Potassium hydroxide	1310-58-3	1-5
Hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine	4719-04-4	1-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### 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:

May cause irritation and/or burns to respiratory system, mouth, throat, stomach and skin. Causes serious eye damage.

# 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 CO<sub>2</sub>.

# Unsuitable extinguishing media

None known.

### Specific hazards arising from the chemical

Thermal decomposition products include oxides of carbon and nitrogen.

# Special protective equipment for fire-fighters

Wear 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.

#### 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.

## 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

# **Control parameters**

### **Occupational exposure limits**

#### **OSHA**

Material	Type	Value
Potassium hydroxide	CEIL	2 mg/m <sup>3</sup>

#### **ACGIH**

Material	Туре	Value
Potassium hydroxide	CEIL	2 mg/m <sup>3</sup>
Triethanolamine	TWA, 8 hours	5 mg/m <sup>3</sup>

#### NIOSH

Material	Туре	Value
Potassium hydroxide	TWA, 10 hours	2 mg/m <sup>3</sup>

# **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-butyl-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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, light yellow

Physical state: Liquid

Odor: Mild

Odor Threshold: Not available

**pH**: 11.5

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:** 1.05 @ 60°F (15.56°C)

Solubility (water): Complete

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

**Auto-ignition Temperature:** Not available **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: None known

**Incompatible materials:** Strong acids and oxidizing agents.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

### 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 or burning of the eyes and respiratory tract.

#### **Skin Contact**

May cause irritation or burning of the skin.

### **Eye Contact**

May cause irritation or burning of the eyes.

### Symptoms related to the physical, chemical and toxicological characteristics

Not available

# **Information on Toxicological Effects**

# **Acute Toxicity:**

Product/ingredient name	Result	Species	Dose
Potassium hydroxide	LD50 Oral	Rat	273 mg/kg
Triethanolamine	LD50 Oral	Rat	6400 mg/kg
Hexahydro-1,3,5-tris(2-	LD50 Oral	Rat	2480 mg/kg
hydroxyethyl)-s-triazine			

Skin Corrosion/Irritation: Irritating to skin.

Serious Eye Damage/Eye irritation: Damaging to eyes

Respiratory or Skin Sensitization

Respiratory Sensitization: No data available

Skin Sensitization: Not classified

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

### 12. ECOLOGICAL INFORMATION

# **Ecotoxicity:**

Component	Test	Species	Dose
Potassium hydroxide	LC50, 48h	Daphnia magna	80ppm
Triethanolamine	LC50, 96h	Fish	11,800 mg/L
Hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine	LC50, 96h	Fish	55 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

# 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

ID Number	Proper Shipping Name	Hazard Class/Division	Packing Group
UN3266	Corrosive Liquid, Basic, Inorganic, N.O.S. (Potassium hydroxide)	8	III

### **IMDG**

ID Number	Proper Shipping Name	Hazard Class/Division	Packing Group
UN3266	Corrosive Liquid, Basic, Inorganic, N.O.S.	8	III
	(Potassium hydroxide)		

# 15. REGULATORY INFORMATION

#### **U.S. Federal Regulations:**

This product is considered 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:
Chronic Health Hazard:
No
Fire Hazard:
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.

Ingredient name	Cancer	Reproductive
Diethanolamine	Yes	No

#### 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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