



## SAFETY DATA SHEET

### Eliminator Fiber Optic Cleaning Fluid

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

#### 1. Identification

##### Product identifier

**Product name**                      Eliminator Fiber Optic Cleaning Fluid

**Product number**                      21098

##### Recommended use of the chemical and restrictions on use

**Application**                              Cleaning agent.

**Uses advised against**                      No specific uses advised against are identified.

##### Details of the supplier of the safety data sheet

**Supplier**                                      US Conec Ltd  
1138 25th Street SE  
Hickory, NC 28602  
USA  
828-323-8883

**Manufacturer**                              MICROCARE CORPORATION  
595 John Downey Drive  
New Britain, CT 06051  
United States of America  
CAGE: OATV9  
Tel: + 1 800 638 0125, +1 860-827-0626  
Fax: +1 860-893-1930  
techsupport@microcare.com

##### Emergency telephone number

**Emergency telephone**                      CHEMTREC 1-800-424-9300 (within the U.S.)  
+1 703-741-5970 (from anywhere in the world)

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

**OSHA Regulatory Status**                      This Product is Not Hazardous under the OSHA Hazard Communication Standard.

**Physical hazards**                              Not Classified

**Health hazards**                                Not Classified

**Environmental hazards**                      Not Classified

##### Label elements

**Hazard statements**                              NC Not Classified

**Supplemental label information**                      EUH210 Safety data sheet available on request. RCH001a For use in industrial installations only.

##### Other hazards

## Eliminator Fiber Optic Cleaning Fluid

This product does not contain any substances classified as PBT or vPvB.

### 3. Composition/information on ingredients

#### Mixtures

<b>Methyl Nonafluoroisobutyl Ether</b>	<b>30-60%</b>
CAS number: 163702-08-7	
<b>Classification</b> Not Classified	
<b>Methyl Nonafluorobutyl Ether</b>	<b>30-60%</b>
CAS number: 163702-07-6	
<b>Classification</b> Not Classified	
<b>PROPAN-2-OL</b>	<b>5-10%</b>
CAS number: 67-63-0	
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2A - H319 STOT SE 3 - H336	

The full text for all hazard statements is displayed in Section 16.

**Composition comments**      TSCA: The ingredients of this product are on the TSCA Inventory. The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of CFR 1900.1200

**Ingredient notes**            PROPOSITION 65: This product does not contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity and for which warnings are now required.

#### Composition

### 4. First-aid measures

#### Description of first aid measures

<b>General information</b>	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.
<b>Ingestion</b>	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.
<b>Skin Contact</b>	No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.

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**Protection of first aiders** Use protective equipment appropriate for surrounding materials.

### Most important symptoms and effects, both acute and delayed

**General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** No specific symptoms known. Spray/mists may cause respiratory tract irritation.

**Ingestion** No specific symptoms known. May cause discomfort if swallowed.

**Skin contact** No specific symptoms known. May cause discomfort.

**Eye contact** No specific symptoms known. May be slightly irritating to eyes.

### Indication of immediate medical attention and special treatment needed

**Notes for the doctor** Treat symptomatically.

**Specific treatments** No special treatment required.

## 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

### Special hazards arising from the substance or mixture

**Flammability Class** The product is not flammable.

**Specific hazards** Containers can burst violently or explode when heated, due to excessive pressure build-up.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

### Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** No specific recommendations. For personal protection, see Section 8.

### Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Reuse or recycle products wherever possible. Absorb spillage to prevent material damage. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

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**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists.

**Advice on general occupational hygiene** Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store away from incompatible materials (see Section 10). No specific recommendations.

**Storage class** Unspecified storage.

#### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

**Usage description** Cleaning agent.

### 8. Exposure controls/Personal protection

#### Control parameters

#### Occupational exposure limits

##### **Methyl Nonafluoroisobutyl Ether**

Long-term exposure limit (8-hour TWA): 750 ppm

##### **Methyl Nonafluorobutyl Ether**

Long-term exposure limit (8-hour TWA): 750 ppm

##### **PROPAN-2-OL**

Long-term exposure limit (8-hour TWA): OSHA 400 ppm 980 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 492 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 400 ppm 984 mg/m<sup>3</sup>

A4

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

#### **Additional Occupational Exposure Limits**

**Ingredient comments** WEL = Workplace Exposure Limits Threshold Limit Values (2005), ACGIH, by the American Conference on Governmental Industrial Hygienists. ACGIH = US Standard. SUP = Supplier's recommendation. EU = Indicative Values according to Commission Directive 91/322/EEC.

#### Exposure controls

#### **Protective equipment**



**Appropriate engineering controls** No specific ventilation requirements.

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<b>Eye/face protection</b>	No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
<b>Hand protection</b>	No specific hand protection recommended. Large Spillages: Wear protective gloves.
<b>Hygiene measures</b>	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
<b>Respiratory protection</b>	No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
<b>Environmental exposure controls</b>	Not regarded as dangerous for the environment.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Clear liquid.
<b>Color</b>	Colorless.
<b>Odor</b>	Slight alcoholic.
<b>Odor threshold</b>	No information available.
<b>pH</b>	No information available.
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	54°C/129°F @ 101.3 kPa
<b>Flash point</b>	The product is not flammable.
<b>Evaporation rate</b>	58 (BUOAC = 1)
<b>Evaporation factor</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	Upper flammable/explosive limit: 16.7 %(V) Lower flammable/explosive limit: 4.0 %(V)
<b>Vapor pressure</b>	27.6 kPa @ 25°C
<b>Vapor density</b>	7.0
<b>Relative density</b>	1.48 (H <sub>2</sub> O = 1) @ 25°C
<b>Bulk density</b>	No information available.
<b>Solubility(ies)</b>	Slightly soluble in water.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	<=0.01 Pa s @ 23°C
<b>Explosive properties</b>	No information available.
<b>Global Warming Potential (GWP)</b>	
<b>Refractive index</b>	No information available.

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<b>Particle size</b>	Not applicable.
<b>Molecular weight</b>	Not applicable.
<b>Volatility</b>	100%
<b>Saturation concentration</b>	No information available.
<b>Critical temperature</b>	No information available.
<b>Volatile organic compound</b>	No information available.

### 10. Stability and reactivity

<b>Reactivity</b>	See the other subsections of this section for further details.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
<b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

### 11. Toxicological information

#### Information on toxicological effects

<b>Toxicological effects</b>	Not regarded as a health hazard under current legislation.
<b><u>Acute toxicity - oral</u></b>	
<b>Notes (oral LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Acute toxicity - dermal</u></b>	
<b>Notes (dermal LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Based on available data the classification criteria are not met.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Based on available data the classification criteria are not met.
<b><u>Respiratory sensitization</u></b>	
<b>Respiratory sensitization</b>	Based on available data the classification criteria are not met.
<b><u>Skin sensitization</u></b>	
<b>Skin sensitization</b>	Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	

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<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b>IARC carcinogenicity</b>	Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Not classified as a specific target organ toxicant after a single exposure.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Not classified as a specific target organ toxicant after repeated exposure.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Based on available data the classification criteria are not met.
<b><u>General information</u></b>	
<b>General information</b>	No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	No specific symptoms known. Spray/mists may cause respiratory tract irritation.
<b>Ingestion</b>	No specific symptoms known. May cause discomfort if swallowed.
<b>Skin Contact</b>	No specific symptoms known. May cause discomfort.
<b>Eye contact</b>	No specific symptoms known. May be slightly irritating to eyes.
<b>Route of exposure</b>	Ingestion Inhalation Skin and/or eye contact
<b>Target Organs</b>	No specific target organs known.

### Toxicological information on ingredients.

#### Methyl Nonafluoroisobutyl Ether

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,000.0

**Species** Rat

##### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 1,000.0

**Species** Rat

**ATE inhalation (vapours mg/l)** 1,000.0

#### Methyl Nonafluorobutyl Ether

**Other health effects** There is no evidence that the product can cause cancer.

##### Acute toxicity - oral

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Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 5,000.0

### Acute toxicity - inhalation

Acute toxicity inhalation  
(LC<sub>50</sub> vapours mg/l) 1,000.0

Species Rat

ATE inhalation (vapours  
mg/l) 1,000.0

### PROPAN-2-OL

### Acute toxicity - inhalation

Acute toxicity inhalation  
(LC<sub>50</sub> vapours mg/l) 16,000.0

ATE inhalation (vapours  
mg/l) 16,000.0

### Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

NTP carcinogenicity Not listed.

OSHA Carcinogenicity Not listed.

## 12. Ecological information

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

### Ecological information on ingredients.

#### Methyl Nonafluoroisobutyl Ether

**Ecotoxicity** The product is not expected to be toxic to aquatic organisms.

#### Methyl Nonafluorobutyl Ether

**Ecotoxicity** There are no data on the ecotoxicity of this product.

**Toxicity** Based on available data the classification criteria are not met.

### Ecological information on ingredients.

#### Methyl Nonafluoroisobutyl Ether

**Toxicity** Not considered toxic to fish.

#### Methyl Nonafluorobutyl Ether

**Toxicity** Not considered toxic to fish.

### PROPAN-2-OL



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### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 9,640 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 5102 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	IC <sub>50</sub> , 72 hours: >2,000 mg/l, Algae

### Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

### Ecological information on ingredients.

#### Methyl Nonafluoroisobutyl Ether

**Persistence and degradability** The product is not expected to be biodegradable.

#### Methyl Nonafluorobutyl Ether

**Persistence and degradability** No data available.

### Bioaccumulative potential

**Bio-Accumulative Potential** No data available on bioaccumulation.

**Partition coefficient** No information available.

### Ecological information on ingredients.

#### Methyl Nonafluoroisobutyl Ether

**Bio-Accumulative Potential** No data available on bioaccumulation.

#### Methyl Nonafluorobutyl Ether

**Bio-Accumulative Potential** No data available on bioaccumulation.

#### PROPAN-2-OL

**Partition coefficient** : 0.05

### Mobility in soil

**Mobility** No data available.

**Adsorption/desorption coefficient** Not known.

**Henry's law constant** Not known.

**Surface tension** Not determined.

### Ecological information on ingredients.

#### Methyl Nonafluoroisobutyl Ether

**Mobility** Not applicable.

#### Methyl Nonafluorobutyl Ether

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**Mobility** Not applicable.

### Other adverse effects

**Other adverse effects** None known.

### 13. Disposal considerations

#### Waste treatment methods

**General information** The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.

**Disposal methods** Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

### 14. Transport information

#### UN proper shipping name

**Proper shipping name (International)** Not applicable., Non-hazardous substance.

#### Transport hazard class(es)

**Transport Labels (International)** Not applicable., Non-hazardous substance.

#### Transport labels

No transport warning sign required. Not regulated.

#### Packing group

**Packing group (International)** Not applicable., Non-hazardous substance.

#### Environmental hazards

##### **Environmentally Hazardous Substance**

No.

#### Special precautions for user

No information required.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information required. Not relevant.

### 15. Regulatory information

#### US Federal Regulations

##### **SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed or exempt.

##### **CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

None of the ingredients are listed or exempt.

##### **SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed or exempt.

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### **SARA 313 Emission Reporting**

None of the ingredients are listed or exempt.

### **CAA Accidental Release Prevention**

None of the ingredients are listed or exempt.

### **FDA - Essential Chemical**

None of the ingredients are listed or exempt.

### **FDA - Precursor Chemical**

None of the ingredients are listed or exempt.

### **SARA (311/312) Hazard Categories**

None of the ingredients are listed or exempt.

### **OSHA Highly Hazardous Chemicals**

None of the ingredients are listed or exempt.

### **US State Regulations**

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### **California Air Toxics "Hot Spots" (A-I)**

The following ingredients are listed or exempt:

*PROPAN-2-OL*

#### **California Air Toxics "Hot Spots" (A-II)**

None of the ingredients are listed or exempt.

#### **California Directors List of Hazardous Substances**

The following ingredients are listed or exempt:

*PROPAN-2-OL*

#### **Massachusetts "Right To Know" List**

The following ingredients are listed or exempt:

*PROPAN-2-OL*

#### **Rhode Island "Right To Know" List**

The following ingredients are listed or exempt:

*PROPAN-2-OL*

#### **Minnesota "Right To Know" List**

The following ingredients are listed or exempt:

*PROPAN-2-OL*

#### **New Jersey "Right To Know" List**

The following ingredients are listed or exempt:

*PROPAN-2-OL*

#### **Pennsylvania "Right To Know" List**

The following ingredients are listed or exempt:

*PROPAN-2-OL*

### **Inventories**

## Eliminator Fiber Optic Cleaning Fluid

### EU - EINECS/ELINCS

PROPAN-2-OL  
EINECS

### Canada - DSL/NDSL

DSL

### US - TSCA

All the ingredients are listed or exempt.

### US - TSCA 12(b) Export Notification

The following ingredients are listed or exempt:

*Methyl Nonafluoroisobutyl Ether*  
*Methyl Nonafluorobutyl Ether*

### Philippines - PICCS

PROPAN-2-OL  
Yes

### New Zealand - NZIOC

Not listed.

### Taiwan - NECl

Not listed.

## 16. Other information

<b>Training advice</b>	Only trained personnel should use this material.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	3/25/2019
<b>Revision</b>	67
<b>Supersedes date</b>	3/20/2019
<b>SDS No.</b>	BULK - 21098
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.