

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE AND PREPARATION

### Supplier/Manufacturer:

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Emergency Number: +1-651-430-2270

**Product Name: FO  
Fiber Optic Cleaner/Degreaser**

**Chemical Description:** Alcohol

**Product Use:** Cleaner/Degreaser

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Wt %</u>
Isopropyl Alcohol	67-63-0	200-661-7	100%

## 3. HAZARDS IDENTIFICATION

### Emergency Overview:

Flammable. Keep away from fire and flame. Use with adequate ventilation. Do not ingest. In case of eye contact, flush eyes with water. Keep out of reach of children.

### Eye Contact:

Direct eye contact with vapors or splashes may cause eye irritation.

### Skin Contact:

Prolonged or repeated skin exposure can remove oils, causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material.

### Irritation and Sensitization Potential:

This product has moderate skin irritation potential. It may cause skin sensitization.

### Inhalation (Breathing):

Concentrated solvent vapors may cause drowsiness and irritation. Prolonged exposure to excessively high vapor concentrations can result in central nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue).

### Ingestion (Swallowing):

Material has low level of oral toxicity. Ingestion of large quantities may cause irritation of the digestive tract and nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue).

## 4. FIRST AID MEASURES

### Eye Contact:

If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.

### Skin Contact:

Remove contaminated clothing; flush skin thoroughly with water. If

irritation occurs, seek medical attention.

**Inhalation (Breathing):**

If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.

**Ingestion (Swallowing):**

Do not induce vomiting or give anything by mouth unless directed to do so by medical personnel. Get medical attention if symptoms appear.

**5. FIRE-FIGHTING MEASURES****Flash Point:**

55°F / 13°C (TCC)

**Flammable Limits:**

LEL: 2%

UEL: 12.7%

**Autoignition Temperature:**

750.2°F / 399°C

**Hazardous Decomposition and By-Products:**

Carbon monoxide, carbon dioxide.

**Extinguishing Media:**

Water Spray, Carbon Dioxide, Dry Chemical or Foam.

**Special Precautions:**

Flammable. Wear self-contained breathing apparatus and protective clothing. Use water spray to keep fire-exposed containers cool. Vapors may cause a flash fire or ignite explosively.

**Unusual Hazards:**

Vapors may travel considerable distance to source of ignition and flash back. May burn with nearly invisible flame.

**6. ACCIDENTAL RELEASE MEASURES**

Keep all sources of ignition away from spill. For small spills, absorb with sand or absorbents. For large spills, stay upwind and away from spill. Wear protective respiratory equipment and clothing and use non-sparking utensils to collect absorbents. If spill is indoors, ventilate area of spill. Keep out of drains, sewers or waterways. Do not flush area with water.

**7. HANDLING AND STORAGE**

Keep containers tightly closed. Keep containers cool, dry, and away from sources of ignition. Do not transport or store near heat sources. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. Use and store this product with adequate ventilation. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Respiratory Protection:**

Normal ventilation is adequate. If exposure exceeds recommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH-approved) or use supplied air equipment.

**Protective Gloves:**

For repeated or prolonged skin contact, the use of impermeable gloves is recommended to prevent drying and possible irritation.

**Eye Protection:**

Eye protection is recommended, especially if the material is used in ways where it could splash in the eyes.

**Other Protective Equipment:**

It is suggested that a source of clean water be available in work area

for flushing eyes and skin. Impervious clothing should be worn as needed.

**Exposure Limits and Recommendations:**

<u>Chemical Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Isopropanol	400 ppm	200 ppm

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear, colorless liquid; typical alcohol odor.
<b>Odor Threshold:</b>	22 ppm
<b>Vapor Density (Air = 1):</b>	2.1
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	0.79
<b>Solubility in Water:</b>	Complete
<b>Boiling Point:</b>	180 °F / 82 °C
<b>Freezing Point:</b>	-130 °F / -90 °C
<b>Evaporation Rate:</b>	1.7 (n-butyl acetate = 1)
<b>Vapor Pressure:</b>	4.4 kPa @20 °C
<b>Coefficient of Water/Oil Distribution:</b>	0.1 This product is equally soluble in oil and water.
<b>pH:</b>	Not Applicable
<b>Volatiles (Weight %):</b>	100%
<b>VOC Content:</b>	790 g/l

**10. STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable
<b>Conditions to Avoid:</b>	Material can react violently with strong oxidizing agents.
<b>Materials to Avoid:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition and By-Products:</b>	Carbon monoxide, carbon dioxide.

**11. TOXICOLOGICAL INFORMATION**

<b>Toxicity to Animals::</b>	Isopropyl Alcohol	LD <sub>50</sub> (oral rat) 5800 mg/kg LD <sub>50</sub> (dermal rabbit) 7900 mg/kg LC <sub>50</sub> (inhl rat) 12000, 8 hours
<b>Chronic Exposure:</b>	Not Available.	
<b>Carcinogenic Status:</b>	This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components. ACGIH classifies it as Class A4, not classifiable for human or animal and IARC classifies it as Class 3, not classifiable for human.	
<b>Reproductive Toxicity:</b>	Not classified as a reproductive system toxin.	

**Mutagenicity:** Not classified as a mutagen.

**Teratogenicity:** Not classified as teratogenic or embryotoxic.

**Toxicologically Synergistic Products:** Not Available

## 12. ECOLOGICAL INFORMATION

**Mobility:** No information available.

**Bioaccumulation:** No information available.

**Ecotoxicity:** No information available.

**Aquatic Toxicity:**

96 h LC <sub>50</sub> Fathead Minnow	> 1000 µl/l
48 h LC <sub>50</sub> Golden Orfe	8970 - 9280 mg/l
96 h LC <sub>50</sub> Daphnid	> 1000 µl/l

## 13. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with National and Local Regulations.

## 14. TRANSPORTATION INFORMATION

**UN Number:** Consumer Commodity, ORM-D

**UN Proper Shipping Name:** Consumer Commodity

**Class:** Class 9

**Packing Group:** Not Applicable

**TDG:** Class 3 Flammable Liquid, N.O.S., (Contains Isopropyl Alcohol)

**ICAO/IATA-DGR:** Class 3 Flammable Liquid, N.O.S., (Contains Isopropyl Alcohol)

**IMDG:** UN 1219 Dangerous Goods in Limited Quantities of Class 3

## 15. REGULATORY INFORMATION

### USA Federal and State

All components are listed on the TSCA inventory.

<b>Hazard Categories for SARA Section 311/312 Reporting</b>	<u>Acute</u> Yes	<u>Chronic</u> No	<u>Fire</u> Yes	<u>Pressure</u> No	<u>Reactive</u> No
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<u>Components</u>	<b>CERCLA/SARA Sec 302 Hazardous Substance RQ</b>	<b>EHS TPQ</b>	<b>SARA Sec. 313 Toxic Release</b>
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Components are not affected by these Superfund regulations.

**European Union**

Product is classified as hazardous according to European Directives 88/379/EEC and 67/548/EEC and EU Regulation (EC) No 1272/2008.

<b>Risk Phrases:</b>	R11: Highly flammable R36: Irritating to eyes
<b>Safety Phrases:</b>	S16: Keep away from sources of ignition – No smoking S24/25: Avoid contact with skin and eyes S26: In case of eye contact, rinse with water and seek medical advice
<b>Symbol:</b>	F: Highly flammable Xi: Irritant

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

**Canada**

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

<b>WHMIS Classification:</b>	B2
<b>Canadian DSL:</b>	All ingredients listed.

**Australia**

All components are listed on the AICS.  
Hazardous according to criteria of NOHSC Australia.

**16. OTHER INFORMATION**

<b>NFPA Ratings:</b>	Health:	1
	Fire:	3
	Reactivity:	0

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

<b>Revision Date:</b>	May 21, 2010
<b>Revision Number:</b>	1
<b>Reviewed By:</b>	S. H. Dahlke

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.