

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

AFL

**Product Name:**

AFL FCC2 Enhanced Formula Fiber Optic Connector Cleaner - 3oz (12 pack)

**Manufacturer Part Number:**

FCC2-00-0903

▶ [Click here for more details on the AFL FCC2 Enhanced Formula Fiber Optic Connector Cleaner - 3oz \(12 pack\)](#)

Revision date: 6/15/2022

Revision: 30

Supersedes date: 5/17/2021

## SAFETY DATA SHEET AFL- FCC2 - ENHANCED FORMULA

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

**1. Identification****Product identifier**

**Product name** AFL- FCC2 - ENHANCED FORMULA  
**Product number** FCC2-00-0902, FCC2-10-0902, FCC2-10-0903  
**Synonyms; trade names** FCC2-10-0903, Case of 12 cans

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

**Application** Cleaning agent.

**Details of the supplier of the safety data sheet**

**Supplier** AFL  
16 Eastgate Park  
Belmont, NH 03220  
United States of America  
CAGE: 0NL21

Tel: +1 603-528-7780  
www.AFLglobal.com

**Manufacturer**

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

**Emergency telephone number**

**Emergency telephone** INFOTRAC 1-800-535-5053 (U.S.A. and CANADA)  
1-352-323-3500 (from anywhere in the world)

**2. Hazard(s) identification****Classification of the substance or mixture**

**Physical hazards** Not Classified

**Health hazards** Not Classified

**Environmental hazards** Not Classified

**Human health** Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

**Environmental** The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

**Physicochemical** Vapors are heavier than air and may travel along the floor and accumulate in the bottom of containers. Gas or vapor displaces oxygen available for breathing (asphyxiant). Not considered to be a significant hazard due to the small quantities used.

**Label elements**

**Hazard statements** NC Not Classified

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**Supplemental label information**

EUH210 Safety data sheet available on request. RCH001a For use in industrial installations only.

**Other hazards**

This substance is not classified as PBT or vPvB according to current EU criteria.

**3. Composition/information on ingredients****Mixtures**

<b>Methyl Nonafluoroisobutyl Ether</b> CAS number: 163702-08-7	<b>30-60%</b>
<b>Classification</b> Not Classified	
<b>Methyl Nonafluorobutyl Ether</b> CAS number: 163702-07-6	<b>30-60%</b>
<b>Classification</b> Not Classified	
<b>PROPAN-2-OL</b> CAS number: 67-63-0	<b>5-10%</b>
<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 TSCA: The ingredients of this product are on the TSCA Inventory.

**Ingredient notes**

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

**Composition****4. First-aid measures****Description of first aid measures**

<b>General information</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Consult a physician for specific advice.

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**Skin Contact** Due to the small packaging, the risk of skin contact is minimal. Remove contaminated clothing and rinse skin thoroughly with water.

**Eye contact** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

**General information** For further information, please refer to section 11.

**Inhalation** Vapors in high concentrations are anesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.

**Ingestion** Due to the physical nature of this material it is unlikely that swallowing will occur. May cause nausea, headache, dizziness and intoxication. Congestion of the lungs may occur, producing severe shortness of breath.

**Skin contact** Prolonged skin contact may cause redness and irritation. Mild dermatitis, allergic skin rash.

**Eye contact** May cause temporary eye irritation.

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

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

**5. Fire-fighting measures****Extinguishing media**

**Suitable extinguishing media** The product is not flammable.

**Special hazards arising from the substance or mixture**

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

**Specific hazards** Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m<sup>3</sup>. Containers can burst violently when heated, due to excess pressure build-up.

**Hazardous combustion products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

**Advice for firefighters**

**Protective actions during firefighting** Closed containers can burst violently when heated, due to excess pressure build-up. Containers close to fire should be removed or cooled with water. Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapors.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

**Environmental precautions**

**Environmental precautions** Not considered to be a significant hazard due to the small quantities used. Avoid discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material.

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**Methods and material for containment and cleaning up**

**Methods for cleaning up** Absorb spillage with non-combustible, absorbent material. Do not discharge into drains or watercourses or onto the ground.

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards.

**7. Handling and storage****Precautions for safe handling**

**Usage precautions** Provide adequate ventilation. Avoid contact with skin and eyes.

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

**Storage precautions** Do not store near heat sources or expose to high temperatures. Keep containers upright.

**Storage class** The product is not flammable.

**Specific end uses(s)**

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

**Usage description** Cleaning agent.

**Reference to other sections.** Store away from incompatible materials (see Section 10).

**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.

**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. This product must not be handled in a confined space without adequate ventilation.

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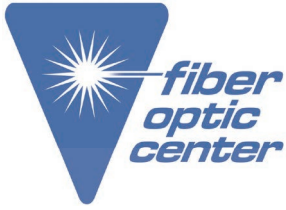
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<b>Eye/face protection</b>	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.
<b>Hand protection</b>	Hand protection not required. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Neoprene.
<b>Hygiene measures</b>	When using do not eat, drink or smoke. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.
<b>Respiratory protection</b>	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.
<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. Does not flash, Tag closed cup (ASTM D 56)
<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 %(V)
<b>Other flammability</b>	No information available.
<b>Vapor pressure</b>	27.6 kPa @ 25°C
<b>Vapor density</b>	7.0
<b>Relative density</b>	1.48 (H2O = 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>	443°C ASTM E659
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	<=0.01 Pa s @ 23°C
<b>Explosive properties</b>	No information available.

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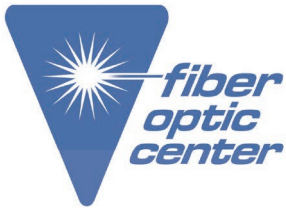
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## AFL- FCC2 - ENHANCED FORMULA

Refractive index	No information available.
Particle size	Not applicable.
Molecular weight	No information available.
Volatility	100%
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.

### 10. Stability and reactivity

Reactivity	Strong alkalis. Chemically-active metals.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Will not polymerize.
Conditions to avoid	Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapors.
Materials to avoid	Alkali metals. Alkaline earth metals. Powdered metal. Strong acids.
Hazardous decomposition products	Heating may generate the following products: Toxic and corrosive gases or vapors. Hydrogen fluoride (HF). Hydrogen chloride (HCl). Halogenated hydrocarbons. Carbon dioxide (CO <sub>2</sub> ).

### 11. Toxicological information

#### Information on toxicological effects

Other health effects	There is no evidence that the product can cause cancer.
Inhalation	Vapors may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing.
Ingestion	May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.
Skin Contact	Repeated exposure may cause skin dryness or cracking. Product has a defatting effect on skin. May cause allergic contact eczema.
Eye contact	May cause temporary eye irritation.

#### Toxicological information on ingredients.

##### Methyl Nonafluoroisobutyl Ether

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD <sub>50</sub> mg/kg)	5,000.0
Species	Rat
<u>Acute toxicity - inhalation</u>	

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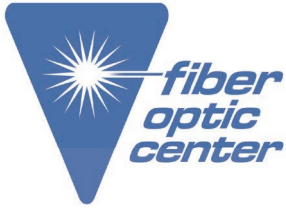
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**AFL- FCC2 - ENHANCED FORMULA**Acute toxicity inhalation  
(LC<sub>50</sub> vapours mg/l) 1,000.0

Species Rat

ATE inhalation (vapours  
mg/l) 1,000.0Methyl Nonafluorobutyl Ether

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

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

Species Rat

ATE oral (mg/kg) 5,000.0

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

Species Rat

ATE inhalation (vapours  
mg/l) 1,000.0PROPAN-2-OLAcute toxicity - inhalationAcute toxicity inhalation  
(LC<sub>50</sub> vapours mg/l) 16,000.0ATE inhalation (vapours  
mg/l) 16,000.0Carcinogenicity

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 There are no data on the ecotoxicity of this product.

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 Not considered toxic to fish.

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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

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 9,640 mg/l, Fish

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 5102 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC<sub>50</sub>, 72 hours: >2,000 mg/l, Algae

Persistence and degradability

Persistence and degradability No data available.

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 The product contains volatile substances which may spread in the atmosphere. Not considered to be a significant hazard due to the small quantities used.

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**AFL- FCC2 - ENHANCED FORMULA**Ecological information on ingredients.

	<u>Methyl Nonafluoroisobutyl Ether</u>
Mobility	Not applicable.
	<u>Methyl Nonafluorobutyl Ether</u>
Mobility	Not applicable.

Other adverse effects

**Other adverse effects** The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.

**13. Disposal considerations**Waste treatment methods

<b>General information</b>	When handling waste, the safety precautions applying to handling of the product should be considered.
<b>Disposal methods</b>	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**14. Transport information**

**General** FCC2-10-0902 and FCC2-10-0903 can be shipped as Consumer ORM-D.

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  
Not listed.

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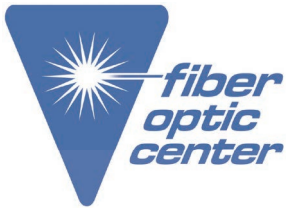
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**CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**  
Not listed.

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**  
Not listed.

**SARA 313 Emission Reporting**  
Not listed.

**CAA Accidental Release Prevention**  
Not listed.

**SARA (311/312) Hazard Categories**  
None

**OSHA Highly Hazardous Chemicals**  
Not listed.

**US State Regulations**

**California Proposition 65 Carcinogens and Reproductive Toxins**  
Not listed.

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

*PROPAN-2-OL*  
Present.

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

Not listed.

**California Directors List of Hazardous Substances**

*PROPAN-2-OL*  
Present.

**Massachusetts "Right To Know" List**

*PROPAN-2-OL*  
Present.

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

*PROPAN-2-OL*  
Present.

**Minnesota "Right To Know" List**

*PROPAN-2-OL*  
Present.

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

*PROPAN-2-OL*  
Present.

**Pennsylvania "Right To Know" List**

*PROPAN-2-OL*  
Present.

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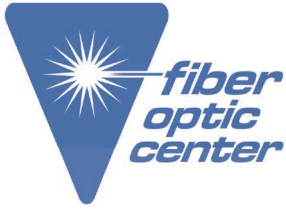
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## AFL- FCC2 - ENHANCED FORMULA

**Inventories****Canada - DSL/NDSL**

DSL

**US - TSCA**

Yes

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

The following ingredients are listed:

*Methyl Nonafluoroisobutyl Ether*

Present.

*Methyl Nonafluorobutyl Ether*

Present.

**16. Other information****Abbreviations and acronyms used in the safety data sheet**

TDG: The transport of dangerous goods act

IATA: International air transport association.

ICAO: Technical instructions for the safe transport of dangerous goods by air.

IMDG: International maritime dangerous goods.

CAS: Chemical abstracts service.

ATE: Acute toxicity estimate.

LC<sub>50</sub>: Lethal concentration to 50 % of a test population.LD<sub>50</sub>: Lethal dose to 50% of a test population (median lethal dose).EC<sub>50</sub>: 50% of maximal effective concentration.

PBT: Persistent, bioaccumulative and toxic substance.

vPvB: Very persistent and very bioaccumulative.

**Revision comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date**

6/15/2022

**Revision**

30

**Supersedes date**

5/17/2021

**SDS No.**

BULK - FCC2-00-0902

**SDS status**

Approved.

**Hazard statements in full**

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.

11/11

Contact the professionals at Fiber Optic Center for a quote or to get more details.

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Data is subject to change without notice. FOC last update 3/12/2026.