MATERIAL SAFETY DATA SHEET
POC - FIBER OPTIC SPLICE AND CONNECTOR CLEANER

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME         POC - FIBER OPTIC SPLICE AND CONNECTOR CLEANER
PRODUCT NO.           MCC-POCGG, MCC-POC03M, MCC-POCP
PRODUCT USE           Cleaning agent.
SUPPLIER              MICROCARE CORPORATION
                      595 John Downey Drive
                      New Britain, CT 06051
                      United States of America
                      CAGE: OATV9
                      Tel: +1 860-827-0626
                      Fax: +1 860-827-8105
                      techsupport@microcare.com
EMERGENCY TELEPHONE   CHEMTREC (800) 424-9300

2 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Colourless liquid. Slight odor of alcohol. This product is not flammable. Prolonged contact may cause redness, irritation and dry skin. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Keep out of the reach of children.

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

PHYSICAL AND CHEMICAL HAZARDS
Vapors are heavier than air and may travel along the floor and in the bottom of containers. Gas or vapor displaces oxygen available for breathing (asphyxiant). Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small.

HUMAN HEALTH
Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

POTENTIAL HEALTH EFFECTS

INHALATION
Vapors may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness.

INGESTION
May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.

SKIN CONTACT
Repeated exposure may cause skin dryness or cracking. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

EYE CONTACT
May cause temporary eye irritation.

CARCINOGENICITY
This substance has no evidence of carcinogenic properties.

3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Weight</th>
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<tr>
<td>Methyl Nonafluorobutyl Ether</td>
<td></td>
<td>163702-07-6</td>
<td>30-60%</td>
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<tr>
<td>Methyl Nonafluoroisobutyl Ether</td>
<td></td>
<td>163702-08-7</td>
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<td>PROPA-2-OL</td>
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<td>200-661-7</td>
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COMPOSITION COMMENTS
The Data Shown is in accordance with the latest EC Directives.
POC - FIBER OPTIC SPLICE AND CONNECTOR CLEANER

4 FIRST-AID MEASURES

GENERAL INFORMATION
Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Perform artificial respiration if breathing has stopped. Do not give victim anything to drink if they are unconscious.

NOTES TO THE PHYSICIAN
No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

INHALATION
Move into fresh air and keep at rest. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

INGESTION
NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Consult a physician for specific advice.

SKIN CONTACT
Due to the small packaging the risk of skin contact is minimal. Remove contaminated clothes and rinse skin thoroughly with water.

EYE CONTACT
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Contact physician if discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
This product is not flammable.

SPECIAL FIRE FIGHTING PROCEDURES
Closed containers can burst violently when heated, due to excess pressure build-up. Containers close to fire should be removed or cooled with water. Avoid contact with naked flames and hot surfaces as corrosive and toxic decomposition products can be formed.

UNUSUAL FIRE & EXPLOSION HAZARDS
Containers can burst violently when heated, due to excess pressure build-up.

SPECIFIC HAZARDS
In case of fire, toxic gases may be formed.

PROTECTIVE MEASURES IN FIRE
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

FLAMMABILITY LIMIT - LOWER(%) 4.0
FLAMMABILITY LIMIT - UPPER(%) 16.7

FLAMMABILITY CLASS
This product is not flammable.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Wear approved, tight fitting safety glasses where splashing is probable.

ENVIRONMENTAL PRECAUTIONS
Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small. Avoid discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable absorbent material.

SPILL CLEAN UP METHODS
Absorb spillage with suitable absorbent material. Large quantities should not be discharged into the drain but removed with absorbing material.

7 HANDLING AND STORAGE

HANDLING
Provide good ventilation. Avoid contact with skin and eyes.

USAGE DESCRIPTION
Cleaning agent.

STORAGE
Do not store near heat sources or expose to high temperatures. Keep upright.
POC - FIBER OPTIC SPLICE AND CONNECTOR CLEANER

8 EXPOSURE CONTROLS/PERSOAL PROTECTION

PROTECTIVE EQUIPMENT

ENGINEERING MEASURES
No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

RESPIRATORY EQUIPMENT
No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit.

HAND PROTECTION
Hand protection not required. For prolonged or repeated skin contact use suitable protective gloves. Neoprene gloves are recommended.

EYE PROTECTION
Wear approved, tight fitting safety glasses where splashing is probable.

HYGIENE MEASURES
When using do not eat, drink or smoke. No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Clear liquid.
COLOR Colourless.
ODOR Slight odor of alcohol.
VOLATILITY DESCRIPTION Volatile
SOLUBILITY Slightly soluble in water.
BOILING POINT (°C) 54 C / 129 F
RELATIVE DENSITY 1.48 (H2O = 1)
VAPOR DENSITY (air=1) 7.0
VAPOR PRESSURE 207 mm Hg 25
EVAPORATION RATE 58 (BUOAC = 1)
VOLATILE BY VOL. (%) 100
VISCOITY <=0.01 (@ 23 degrees C) Pas

10 STABILITY AND REACTIVITY

STABILITY
Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID
Avoid contact with naked flames and hot surfaces as corrosive and toxic decomposition products can be formed.

HAZARDOUS POLYMERISATION
Will not polymerise.

MATERIALS TO AVOID

HAZARDOUS DECOMPOSITION PRODUCTS

11 TOXICOLOGICAL INFORMATION

PROPAN-2-OL (CAS: 67-63-0)

TOXIC DOSE 1 - LD 50 5045 mg/kg (oral rat)
ECOTOXICITY
There are no data on the ecotoxicity of this product.

MOBILITY
The product contains volatile substances, which may spread in the atmosphere. Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small.

BIOACCUMULATION
No data available on bioaccumulation.

DEGRADABILITY
No data available.

ACUTE FISH TOXICITY
Not considered toxic to fish.

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13 DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT
When handling waste, consideration should be made to the safety precautions applying to handling of the product.

DISPOSAL METHODS
Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

TRANSPORT NOTES
Not regulated. The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, DOT).

No transport warning sign required. Not regulated.
POC - FIBER OPTIC SPLICING AND CONNECTOR CLEANER

ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT MARKINGS
No. None.

15 REGULATORY INFORMATION

INVENTORIES

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<th>COMPONENT</th>
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SARA (311/312) HAZARD CATEGORIES

Acute

REGULATORY STATUS (US)

TSCA: The ingredients of this product are on the TSCA Inventory. SECTION 313: This product is a toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and reauthorization Act of 1986 and 40 CFR Part 372.

REGULATORY REFERENCES


WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM -WHMIS

LABEL(S) FOR SUPPLY

Materials Causing Other Toxic Effects.

CONTROLLED PRODUCT CLASSIFICATION

Canadian WHMIS Classification D2 WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CPR SECTION (33)) This product has been classified according to the hazard criteria of the Controlled Product Regulations, and the MSDS contains all required information.

16 OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

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NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

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REVISION COMMENTS

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

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.