



## SAFETY DATA SHEET

### POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

According to the Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013, as amended.

#### SECTION 1: identification of the hazardous chemical and of the supplier

##### Product identifier

<b>Product name</b>	POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER
<b>Product number</b>	MCC-POCGL, MCC-POC03M, MCC-POCP, MCC-POCL, MCC-POCG, MCC-POCGG, MCC-POCD, POC03D, POC03GG, POC03GL, MCC-POC10M
<b>Synonyms; trade names</b>	NSN: 6850-01-592-9391; NATO: 6850-99-328-5073

##### Recommended use of the substance or mixture and restrictions on use

<b>Identified uses</b>	Cleaning agent.
<b>Uses advised against</b>	No specific uses advised against are identified.

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

<b>Supplier</b>	MICROCARE ASIA PTE LTD 102E Pasir Panjang Road Singapore 118529 (65)6271.0182 techsupport@microcare.sg
<b>Manufacturer</b>	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

<b>Emergency telephone</b>	INFOTRAC +65 3163 5349 (SINGAPORE) 1-352-323-3500 (from anywhere in the world)
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#### SECTION 2: Hazard identification

##### Classification of the substance or mixture

##### Classification

<b>Physical hazards</b>	Not Classified
<b>Health hazards</b>	Not Classified
<b>Environmental hazards</b>	Not Classified

##### Label elements

<b>Hazard statements</b>	NC Not Classified
<b>Supplemental label information</b>	Safety data sheet available on request. For use in industrial installations only.

## POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

### Other hazards

This product does not contain any substances classified as PBT or vPvB (persistent, bioaccumulative and toxic, or very persistent and very bioaccumulative).

### SECTION 3: Composition and information of the ingredients of the hazardous chemical

#### 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. 2 - H319	
STOT SE 3 - H336	

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

**Composition comments**            The data shown are in accordance with the latest EC Directives.

#### Composition

### SECTION 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.
<b>Protection of first aiders</b>	Use protective equipment appropriate for surrounding materials.

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

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<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Spray/mists may cause respiratory tract irritation.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	May cause discomfort.
<b>Eye contact</b>	May be slightly irritating to eyes.
<b><u>Indication of any immediate medical attention and special treatment needed</u></b>	
<b>Specific treatments</b>	No special treatment required.
<b>Notes for the doctor</b>	Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### Extinguishing media

<b>Suitable extinguishing media</b>	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.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

#### Advice for fire-fighters

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours. 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 vapours and protect men stopping the leak.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Fire-fighter's clothing will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	No specific recommendations. For personal protection, see Section 8.
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#### Environmental precautions

<b>Environmental precautions</b>	Avoid discharge into drains or watercourses or onto the ground.
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#### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	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

<b>Reference to other sections</b>	For personal protection, see Section 8. For waste disposal, see Section 13.
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### SECTION 7: Handling and storage

#### Precautions for safe handling

## POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

<b>Usage precautions</b>	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 minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists.
<b>Advice on general occupational hygiene</b>	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
<b><u>Conditions for safe storage, including any incompatibilities</u></b>	
<b>Storage precautions</b>	Store away from incompatible materials (see Section 10). No specific recommendations.
<b>Storage class</b>	Unspecified storage.
<b><u>Specific end use(s)</u></b>	
<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.
<b>Usage description</b>	Cleaning agent.

### SECTION 8: Exposure controls and personal protection

#### Control parameters

#### Occupational exposure limits

#### PROPAN-2-OL

Eight-hour time-weighted average: PEL 400 ppm 983 mg/m<sup>3</sup>

Permissible exposure limit (PEL)

**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.

**Eye/face protection** 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.

**Hand protection** No specific hand protection recommended. Large Spillages: Wear protective gloves. Nitrile rubber.

**Hygiene measures** Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

**Respiratory protection** No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn. Organic vapour filter.

**Environmental exposure controls** Not regarded as dangerous for the environment.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

**Appearance** Clear liquid.

## POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

<b>Colour</b>	Colourless.
<b>Odour</b>	Slight alcoholic.
<b>Odour threshold</b>	No information available.
<b>pH</b>	No information available.
<b>Melting point</b>	No information available. Not applicable.
<b>Initial boiling point and range</b>	54°C/129°F @ 101.3 kPa
<b>Flash point</b>	The product is not flammable. On basis of test data. 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) ASTM E681 Lower flammable/explosive limit: 4.0 %(V) ASTM E681
<b>Vapour pressure</b>	27.6 kPa @ 25°C
<b>Vapour density</b>	7.0
<b>Relative density</b>	1.40 (H2O = 1) @ 25°C
<b>Bulk density</b>	No information available.
<b>Solubility(ies)</b>	Slightly soluble in water. >10%
<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.
<b>Refractive index</b>	No information available.
<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>	This product contains a maximum VOC content of 133 g/l.

### SECTION 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.

## POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

<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 vapours.

### SECTION 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>	
<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.

## POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

<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>	Spray/mists may cause respiratory tract irritation.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	May cause discomfort.
<b>Eye contact</b>	May be slightly irritating to eyes.
<b>Route of entry</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

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

##### Carcinogenicity

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

**NTP carcinogenicity** Not listed.

## POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

### SECTION 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

##### 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** 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

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** No information available.

#### Ecological information on ingredients



## POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

### Methyl Nonafluoroisobutyl Ether

**Bioaccumulative potential** No data available on bioaccumulation.

### Methyl Nonafluorobutyl Ether

**Bioaccumulative 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

**Mobility** Not applicable.

#### Other adverse effects

**Other adverse effects** None known.

### **SECTION 13: Disposal information**

#### Waste treatment methods

**General information** The generation of waste should be minimised 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.

### **SECTION 14: Transportation information**

**General** Not regulated.

#### UN number

#### UN proper shipping name

Not applicable. Non-hazardous substance.

#### Transport hazard class(es)

Not applicable. Non-hazardous substance.

## POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

### Transport labels

No transport warning sign required. Not regulated.

### Packing group

Not applicable. Non-hazardous substance.

### Environmental hazards

#### Environmentally hazardous substance/marine pollutant

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.

Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the substance or mixture

#### Inventories

##### EU - EINECS/ELINCS

*PROPAN-2-OL*

EINECS

##### Philippines - PICCS

*PROPAN-2-OL*

Yes

##### Taiwan - TCSI

Not listed.

##### New Zealand - NZIOC

Not listed.

## SECTION 16: Other information

### Abbreviations and acronyms used in the safety data sheet

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.

### Training advice

Only trained personnel should use this material.

### Revision comments

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

## POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

<b>Revision date</b>	3/6/2021
<b>Revision</b>	68
<b>Supersedes date</b>	9/12/2020
<b>SDS number</b>	BULK - POC
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. 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.