



## SAFETY DATA SHEET

### POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

According to Regulation (EC) No 1907/2006

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

<b>PRODUCT NAME</b>	POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER		
<b>PRODUCT NO.</b>	MCC-POCGG, MCC-POC03M, MCC-POCP		
<b>SUPPLIER</b>	MICROCARE EUROPE BVBA Erasmuslaan 10 B-1804 Cargovil (Zemst) Belgium 0032 2 251 95 05 0032 2 759 80 27 techsupport@microcare.com	<b>MANUFACTURER</b>	MICROCARE EUROPE BVBA Erasmuslaan 10 B-1804 Cargovil (Zemst) Belgium 0032 2 251 95 05 0032 2 759 80 27 techsupport@microcare.com

#### 2 HAZARDS IDENTIFICATION

May cause long-term adverse effects in the aquatic environment.

**CLASSIFICATION** R53.

##### 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

Vapours are heavier than air and may travel along the floor and in the bottom of containers. Gas or vapour 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 skin contact may cause redness, irritation and dry skin. Mild dermatitis, allergic skin rash.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
Methyl Nonafluorobutyl Ether		163702-07-6	30-60%	R53.
Methyl Nonafluoroisobutyl Ether		163702-08-7	30-60%	R53.
PROPAN-2-OL	200-661-7	67-63-0	10-30%	F;R11 Xi;R36 R67

The Full Text for all R-Phrases are Displayed in Section 16

#### 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.

##### INHALATION

Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

##### INGESTION

DO NOT INDUCE VOMITING! Immediately rinse mouth and drink plenty of water (200-300 ml). Do not give victim anything to drink if they are unconscious. Consult a physician for specific advice.

##### SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water.

## POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

**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.

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**5 FIRE-FIGHTING MEASURES**

**EXTINGUISHING MEDIA**

This product is not flammable.

**SPECIAL FIRE FIGHTING PROCEDURES**

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.

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**6 ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS**

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

**ENVIRONMENTAL PRECAUTIONS**

Avoid discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.

**SPILL CLEAN UP METHODS**

Absorb spillage with suitable absorbent material.

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**7 HANDLING AND STORAGE**

**USAGE PRECAUTIONS**

Provide good ventilation. Avoid contact with skin and eyes.

**STORAGE PRECAUTIONS**

Do not store near heat sources or expose to high temperatures. Keep upright.

**STORAGE CLASS**

This product is not flammable.

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**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
PROPAN-2-OL	WEL	400 ppm	999 mg/m3	500 ppm	1250 mg/m3	

WEL = Workplace Exposure Limit.

**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 Workplace Exposure Limit.

## POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

### 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

<b>APPEARANCE</b>	Clear liquid		
<b>COLOUR</b>	Colourless		
<b>ODOUR</b>	Slight odour of alcohol		
<b>VOLATILITY DESCRIPTION</b>	Volatile.		
<b>SOLUBILITY</b>	Slightly soluble in water.		
<b>Flammability</b>	This product is not flammable.		
<b>BOILING POINT (°C)</b>	54 C / 129 F	<b>VAPOUR DENSITY (air=1)</b>	7.0
<b>VAPOUR PRESSURE</b>	207 mm Hg 25	<b>VOLATILE BY VOL. (%)</b>	100
<b>FLAMMABILITY LIMIT - LOWER(%)</b>	4.0	<b>FLAMMABILITY LIMIT - UPPER(%)</b>	16.7

## 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

Alkali metals. Alkali earth metals. Powdered metal.

### HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures may form toxic and corrosive vapours. Hydrogen fluoride (HF). Halogenated hydrocarbons. Carbon dioxide (CO<sub>2</sub>).

## 11 TOXICOLOGICAL INFORMATION

### INHALATION

Vapours 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.

<b>Name</b>	PROPAN-2-OL
<b>Toxic Dose 1 - LD 50</b>	5045 mg/kg (oral rat)
<b>Toxic Dose 2 - LD 50</b>	3600 mg/kg (oral-mouse)
<b>Toxic Conc. - LC 50</b>	16,000 ppm/1h (inh-rat)
<b>Name</b>	Methyl Nonafluoroisobutyl Ether
<b>Name</b>	Methyl Nonafluorobutyl Ether

### OTHER HEALTH EFFECTS

This substance has no evidence of carcinogenic properties.

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### 12 ECOLOGICAL INFORMATION

#### BIOACCUMULATION

No data available on bioaccumulation.

#### DEGRADABILITY

No data available.

#### ACUTE FISH TOXICITY

Not considered toxic to fish.

<b>Name</b>	PROPAN-2-OL
<b>LC 50, 96 Hrs, FISH mg/l</b>	9,640
<b>EC 50, 48 Hrs, DAPHNIA, mg/l</b>	5102
<b>IC 50, 72 Hrs, ALGAE, mg/l</b>	>2,000
<b>Name</b>	Methyl Nonafluoroisobutyl Ether

#### Ecotoxicity

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

#### Mobility

Not relevant, due to the form of the product.

#### Bioaccumulation potential

No data available on bioaccumulation.

#### Degradability

The product is not expected to be biodegradable.

#### Acute Fish Toxicity

Not considered toxic to fish.

<b>Name</b>	Methyl Nonafluorobutyl Ether
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#### Ecotoxicity

There are no data on the ecotoxicity of this product.

#### Mobility

Not relevant, due to the form of the product.

#### Bioaccumulation potential

No data available on bioaccumulation.

#### Degradability

No data available.

#### Acute Fish Toxicity

Not considered toxic to fish.

### 13 DISPOSAL CONSIDERATIONS

#### GENERAL INFORMATION

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

#### GENERAL

Not regulated. The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

### 15 REGULATORY INFORMATION

#### RISK PHRASES

R53 May cause long-term adverse effects in the aquatic environment.

#### SAFETY PHRASES

NC Not classified.

**POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER**

S2

Keep out of the reach of children

**EU DIRECTIVES**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

**16 OTHER INFORMATION****REVISION COMMENTS**

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

**REVISION DATE** 13/01/2010

**REV. NO./REPL. SDS** 6

**GENERATED****SAFETY DATA SHEET STATUS**

Approved.

**DATE** January 16, 2009

**RISK PHRASES IN FULL**

R11	Highly flammable.
R36	Irritating to eyes.
R53	May cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

**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.