

## SAFETY DATA SHEET POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

SECTION 1: Identification of the	ne substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER
Product number	MCC-POCGL,MCC-POC03M,MCC-POCP,MCC-POC03GG,MCC-POCL,MCC-POCG,MCC-POCGG,MCC-POC03L,MCC-POC03GL,MCC-POC03G,MCC-POC03P,MCC-POC03D
Synonyms; trade names	NSN: 6850-01-592-9391; NATO: 6850-99-328-5073
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
Identified uses	Cleaning agent.
1.3. Details of the supplier of the	he safety data sheet
Supplier	MICROCARE EUROPE BVBA Havendoklaan 13D 1804 Cargovil Vilvoorde, Belgium +32.2.251.95.05 techsupport@microcare.com
Manufacturer	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
1.4. Emergency telephone nur	nber
Emergency telephone	EU: CHEMTREC +(32)-28083237
SECTION 2: Hazards identifica	ation
2.1. Classification of the substance of	Not Classified
Physical hazards	Not Classified
Health hazards	
Environmental hazards	Not Classified
Classification (67/548/EEC or 1999/45/EC)	R53.
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	Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Gas or vapour displaces oxygen available for breathing (asphyxiant). Not considered to be a significant hazard due to the small quantities used.		
2.2. Label elements			
Hazard statements	NC Not Classified		
Supplemental label	EUH210 Safety data sheet available on request.		
information	RCH001a For use in industrial installations only.		
2.3. Other hazards			
This substance is not classified as PBT or vPvB according to current EU criteria.			

### SECTION 3: Composition/information on ingredients

3.2. Mixtures		
Methyl Nonafluorobutyl Ether		30-60%
CAS number: 163702-07-6		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Not Classified	R53.	
Methyl Nonafluoroisobutyl Ether		30-60%
CAS number: 163702-08-7		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Not Classified	R53.	
PROPAN-2-OL		5-10%
CAS number: 67-63-0	EC number: 200-661-7	
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 2 - H225	F;R11 Xi;R36 R67	
Eye Irrit. 2 - H319		
STOT SE 3 - H336		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

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

SECTION 4: First aid measures	
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### 4.1. Description of first aid measures

General information	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.
Inhalation	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.

Ingestion	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.
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.
4.2. Most important symptoms	and effects, both acute and delayed
General information	For further information, please refer to section 11.
Inhalation	Vapours in high concentrations are anaesthetic. 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.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
SECTION 5: Firefighting meas	sures
SECTION 5: Firefighting meas 5.1. Extinguishing media	sures
	The product is not flammable.
5.1. Extinguishing media	The product is not flammable.
5.1. Extinguishing media Suitable extinguishing media	The product is not flammable.
5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising fro	The product is not flammable. om the substance or mixture Protection against nuisance dust must be used when the airborne concentration exceeds 10
5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising fro Specific hazards Hazardous combustion	The product is not flammable. <b>om the substance or mixture</b> Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. Containers can burst violently when heated, due to excess pressure build-up. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and
5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising fro Specific hazards Hazardous combustion products	The product is not flammable. <u>om the substance or mixture</u> Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. Containers can burst violently when heated, due to excess pressure build-up. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and
<ul> <li>5.1. Extinguishing media</li> <li>Suitable extinguishing media</li> <li>5.2. Special hazards arising from</li> <li>Specific hazards</li> <li>Hazardous combustion</li> <li>products</li> <li>5.3. Advice for firefighters</li> <li>Protective actions during</li> </ul>	The product is not flammable. <u>orn the substance or mixture</u> Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. Containers can burst violently when heated, due to excess pressure build-up. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. 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
<ul> <li><u>5.1. Extinguishing media</u></li> <li>Suitable extinguishing media</li> <li><u>5.2. Special hazards arising fro</u></li> <li>Specific hazards</li> <li>Hazardous combustion products</li> <li><u>5.3. Advice for firefighters</u></li> <li>Protective actions during firefighting</li> <li>Special protective equipment</li> </ul>	The product is not flammable. <b>om the substance or mixture</b> Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. Containers can burst violently when heated, due to excess pressure build-up. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. 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 vapours. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
<ul> <li>5.1. Extinguishing media</li> <li>Suitable extinguishing media</li> <li>5.2. Special hazards arising from Specific hazards</li> <li>Hazardous combustion products</li> <li>5.3. Advice for firefighters</li> <li>Protective actions during firefighting</li> <li>Special protective equipment for firefighters</li> <li>SECTION 6: Accidental release</li> </ul>	The product is not flammable. <b>om the substance or mixture</b> Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. Containers can burst violently when heated, due to excess pressure build-up. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. 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 vapours. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6.2. Environmental precautions

required, the following protection should be worn: Tight-fitting safety glasses.

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.
6.3. 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.
6.4. Reference to other section	<u>15</u>
Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe hand	ling
Usage precautions	Provide adequate ventilation. Avoid contact with skin and eyes.
7.2. Conditions for safe storage	e, 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.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2. For use in industrial installations only.
Usage description	Cleaning agent.
Reference to other sections.	Store away from incompatible materials (see Section 10).
SECTION 8: Exposure Control	Is/personal protection
8.1. Control parameters	
Occupational exposure limits PROPAN-2-OL	
	bur TWA): WEL 400 ppm_999 mg/m³ minute): WEL 500 ppm_1250 mg/m³ imit
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.

### 8.2. Exposure controls

#### Protective equipment



Appropriate engineering controls

No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

Eye/face protection

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.

Hand protection	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.
Hygiene measures	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.
Respiratory protection	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

## SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties			
Appearance	Clear liquid.		
Colour	Colourless.		
Odour	Slight alcoholic.		
Odour threshold	No information available.		
рН	No information available.		
Melting point	No information available.		
Initial boiling point and range	54°C/129°F @ 101.3 kPa		
Flash point	The product is not flammable.		
Evaporation rate	58 (BUOAC = 1)		
Evaporation factor	No information available.		
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 16.7 %(V) Lower flammable/explosive limit: 4.0 %(V)		
Other flammability	No information available.		
Vapour pressure	27.6 kPa @ 25°C		
Vapour density	7.0		
Relative density	1.48 (H20 = 1) @ 20°C		
Bulk density	No information available.		
Solubility(ies)	Slightly soluble in water.		
Partition coefficient	No information available.		
Auto-ignition temperature	No information available.		
Decomposition Temperature	No information available.		
Viscosity	<=0.01 Pa s @ 23°C		
9.2. Other information			
Refractive index	No information available.		
Particle size	Not applicable.		
Molecular weight	No information available.		
Volatility	100%		
Saturation concentration	No information available.		

Critical tempera	ature N	lo information available.
UDF Phrase 1		he product is not flammable.
	Stability and reactiv	
	•	vity
10.1. Reactivity Reactivity	•	Strong alkalis. Chemically-active metals.
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10.2. Chemical Stability		Stable at normal ambient temperatures and when used as recommended.
Possibility of ha	of hazardous rea	Vill not polymerise.
reactions		viii not polymense.
10.4. Condition	s to avoid	
Conditions to a		Keep away from heat, sparks and open flame. Thermal decomposition or combustion or combustion or combustion or combustion and corrosive gases or vapours.
10.5. Incompati	ible materials	
Materials to avo	<b>bid</b> A	Ikali metals. Alkaline earth metals. Powdered metal. Strong acids.
10.6. Hazardou	is decomposition p	products
Hazardous dec products	Н	leating may generate the following products: Toxic and corrosive gases or vapours. lydrogen fluoride (HF). Hydrogen chloride (HCl). Halogenated hydrocarbons. Carbon dioxide CO2).
SECTION 11: 1	Foxicological inform	mation
11.1. Informatio	on on toxicological	l effects
Other health ef	fects T	here is no evidence that the product can cause cancer.
Inhalation		apours may irritate throat/respiratory system. A single exposure may cause the following dverse effects: Coughing. Difficulty in breathing.
Ingestion		lay cause stomach pain or vomiting. May cause nausea, headache, dizziness and ntoxication.
Skin contact		Repeated exposure may cause skin dryness or cracking. Product has a defatting effect on kin. May cause allergic contact eczema.
Eye contact	Μ	lay cause temporary eye irritation.
Toxicological in	formation on ingre	edients.
		Methyl Nonafluorobutyl Ether
O	ther health effects	There is no evidence that the product can cause cancer.
	cute toxicity - oral	
A	cute toxicity oral (L g/kg)	L <b>D₅</b> o 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
		Methyl Nonafluoroisobutyl Ether
	Acute toxicity - oral	
	Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
	Species	Rat
	Acute toxicity - inhalation	
	Acute toxicity inhalation (LC50 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.
	OSHA Carcinogenicity	Not listed.
SECTION 12	2: Ecological Information	
Ecotoxicity	There ar	e no data on the ecotoxicity of this product.
Ecological ir	formation on ingredients.	
		Methyl Nonafluorobutyl Ether
	Ecotoxicity	There are no data on the ecotoxicity of this product.
		Methyl Nonafluoroisobutyl Ether
	Ecotoxicity	The product is not expected to be toxic to aquatic organisms.
12.1. Toxicit	<u>y</u>	
Toxicity	Not cons	idered toxic to fish.
Ecological in	formation on ingredients.	
		Methyl Nonafluorobutyl Ether
	Toxicity	Not considered toxic to fish.
		Methyl Nonafluoroisobutyl Ether

	Toxicity	Not considered toxic to fish.	
		PROPAN-2-OL	
	Acute toxicity - fish	LC₅₀, 96 hours: 9,640 mg/l, Fish	
	Acute toxicity - aqui invertebrates	atic EC₅₀, 48 hours: 5102 mg/l, Daphnia magna	
	Acute toxicity - aqu plants	atic IC₅₀, 72 hours: >2,000 mg/l, Algae	
12.2. Persist	ence and degradat	ity	
Persistence	and degradability	lo data available.	
Ecological in	formation on ingree	ents.	
		Methyl Nonafluorobutyl Ether	
	Persistence and degradability	No data available.	
		Methyl Nonafluoroisobutyl Ether	
	Desciptor as and		
	Persistence and degradability	The product is not expected to be biodegradable.	
12.3. Bioacc	umulative potential		
Bioaccumula	ative potential	lo data available on bioaccumulation.	
Partition coe	fficient	lo information available.	
Ecological in	formation on ingree	ents.	
		Methyl Nonafluorobutyl Ether	
	Bioaccumulative p	tential No data available on bioaccumulation.	
		Methyl Nonafluoroisobutyl Ether	
	Bioaccumulative p	tential No data available on bioaccumulation.	
12.4. Mobilit	y in soil		
Mobility		he product contains volatile substances which may spread in the atmosphere. Not onsidered to be a significant hazard due to the small quantities used.	
Adsorption/d coefficient	lesorption	lot known.	
Henry's law	constant	lot known.	
Surface tens	ion	lot determined.	
Ecological in	formation on ingree	ents.	
		Methyl Nonafluorobutyl Ether	
	Mobility	Not applicable.	

Methyl Nonafluoroisobutyl Ether

Mobility	Not applicable.	
12.5. Results of PBT and vPvB assessment		
Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.	
12.6. Other adverse effects		
Other adverse effects	The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.	
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
General information	When handling waste, the safety precautions applying to handling of the product should be considered.	
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.	
SECTION 14: Transport information		
General	Not regulated. The product is not covered by international regulations on the transport of	

dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable. Non-hazardous substance.

### 14.2. UN proper shipping name

Not applicable. Non-hazardous substance.

#### 14.3. Transport hazard class(es)

Not applicable. Non-hazardous substance.

#### **Transport labels**

#### 14.4. Packing group

Not applicable. Non-hazardous substance.

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

#### 14.6. Special precautions for user

No information required.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to No information required. Not relevant. Annex II of MARPOL 73/78 and the IBC Code

### SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

US - TSCA

Yes

SECTION 16: Other information	
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	22/12/2015
Revision	21
Supersedes date	21/12/2015
SDS number	BULK - POC
SDS status	Approved.
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.
Hazard statements in full	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.