



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 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-POCL, MCC-POCG, MCC-POCGG, MCC-POCD, POC03D, POC03GG, POC03GL, MCC-POC10M
Synonyms; trade names	NSN: 6850-01-592-9391; NATO: 6850-99-328-5073

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Cleaning agent.
------------------------	-----------------

1.3. Details of the supplier of the 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 number

Emergency telephone	CHEMTREC UK (London) +(44)-870-8200418 +1 703-741-5970 (from anywhere in the world)
----------------------------	---

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified

2.2. Label elements

Hazard statements	NC Not Classified
Supplemental label information	EUH210 Safety data sheet available on request. RCH001a For use in industrial installations only.

2.3. Other hazards

POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

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	EC number: 422-270-2

Classification
Not Classified

Methyl Nonafluoroisobutyl Ether	30-60%
CAS number: 163702-08-7	EC number: 422-270-2

Classification
Not Classified

PROPAN-2-OL	5-10%	
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 05-2114285306-46-0000

Classification
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.

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

Composition

SECTION 4: First aid measures

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

POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

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 immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable.

5.2. Special hazards arising from the substance or mixture

Specific hazards 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.

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

5.3. 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 vapours.

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

SECTION 6: Accidental release measures

6.1. 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.

6.2. 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.

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 sections

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

SECTION 7: Handling and storage

POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

7.1. Precautions for safe handling

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

7.2. 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.

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 Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Methyl Nonafluorobutyl Ether

Long-term exposure limit (8-hour TWA): 750 ppm

Methyl Nonafluoroisobutyl Ether

Long-term exposure limit (8-hour TWA): 750 ppm

PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

WEL = Workplace Exposure Limit

Additional Occupational Exposure Limits

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.

POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

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.
pH	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.
Flammability (solid, gas)	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 (H ₂ O = 1) @ 25°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
Explosive properties	No information available.

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 temperature	No information available.
Volatile organic compound	No information available.

POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

UDF Phrase 1 The product is not flammable.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Strong alkalis. Chemically-active metals.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not polymerise.

10.4. Conditions to avoid

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 vapours.

10.5. Incompatible materials

Materials to avoid Alkali metals. Alkaline earth metals. Powdered metal. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Heating may generate the following products: Toxic and corrosive gases or vapours. Hydrogen fluoride (HF). Hydrogen chloride (HCl). Halogenated hydrocarbons. Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Inhalation Vapours 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 Product has a defatting effect on skin. May cause allergic contact eczema. Repeated exposure may cause skin dryness or cracking.

Eye contact May cause temporary eye irritation.

Toxicological information on ingredients.

Methyl Nonafluorobutyl Ether

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

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 5,000.0

Acute toxicity - inhalation

POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

Acute toxicity inhalation
(LC₅₀ 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: Ecological Information

Ecotoxicity There are no data on the ecotoxicity of this product.

Ecological information 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. Toxicity

Toxicity Not considered toxic to fish.

Ecological information on ingredients.

Methyl Nonafluorobutyl Ether

Toxicity Not considered toxic to fish.

Methyl Nonafluoroisobutyl Ether

POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

Toxicity Not considered toxic to fish.

PROPAN-2-OL

Acute toxicity - fish LC₅₀, 96 hours: 9,640 mg/l, Algae

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 5102 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: >2,000 mg/l, Fish

12.2. Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

Methyl Nonafluorobutyl Ether

Persistence and degradability No data available.

Methyl Nonafluoroisobutyl Ether

Persistence and degradability The product is not expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

Methyl Nonafluorobutyl Ether

Bioaccumulative potential No data available on bioaccumulation.

Methyl Nonafluoroisobutyl Ether

Bioaccumulative potential No data available on bioaccumulation.

PROPAN-2-OL

Partition coefficient : 0.05

12.4. 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.

Adsorption/desorption coefficient Not known.

Henry's law constant Not known.

Surface tension Not determined.

Ecological information on ingredients.

Methyl Nonafluorobutyl Ether

POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

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

14.2. UN proper shipping name

Not applicable. Non-hazardous substance.

14.3. Transport hazard class(es)

Not applicable. Non-hazardous substance.

Transport labels

No transport warning sign required. Not regulated.

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 MARPOL and the IBC Code

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

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

POC - FIBER OPTIC SPLICE & CONNECTOR CLEANER

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	05/03/2018
Revision	60
Supersedes date	08/09/2017
SDS number	BULK - POC
SDS status	Approved.
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.