

SAFETY DATA SHEET SFOC - STICKLERS FIBER OPTIC SPLICE & CONNECTOR CLEANER II

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name SFOC - STICKLERS FIBER OPTIC SPLICE & CONNECTOR CLEANER II

Product number MCC-SFOCB, MCC-SFOC03M, MCC-SFOC10M, Prototype 15-201-1

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

Identified uses Cleaning agent.

Uses advised againstNo specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier MICROCARE EUROPE BVBA

VEKESTRAAT 29 B11 INDUSTRIEZONE 'T SAS 1910 KAMPENHOUT, Belgium

+32.2.251.95.05

techsupport@microcare.com

Manufacturer MICROCARE U.K. LTD

SEVEN HILLS BUSINESS CENTRE

SOUTH STREET, MORLEY

LEEDS, WEST YORKSHIRE, UK LS27 8AT

Tel: +44 (0) 113 3609019 mcceurope@microcare.com

1.4. Emergency telephone number

Emergency telephone INFOTRAC +44 330 027 0156 (UK)

1-352-323-3500 (from anywhere in the world)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Not Classified

Health hazards STOT SE 3 - H336

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Warning

SFOC - STICKLERS FIBER OPTIC SPLICE & CONNECTOR CLEANER II

Hazard statements H336 May cause drowsiness or dizziness.

Precautionary statements P261 Avoid breathing vapour/ spray.

P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTRE/doctor if you feel unwell.

P501 Dispose of contents/ container in accordance with national regulations.

Supplemental label

EUH210 Safety data sheet available on request. RCH001a For use in industrial installations

information only.

Contains 1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether, PROPAN-2-OL

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether

60-95%

CAS number: 406-78-0 EC number: 459-330-2

Classification

STOT SE 3 - H336

PROPAN-2-OL 5-10%

CAS number: 67-63-0 EC number: 200-661-7

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.

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

personnel.

Inhalation 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. If breathing stops, provide artificial

respiration. Get medical attention if any discomfort continues.

Ingestion No specific recommendations. If throat irritation or coughing persists, proceed as follows.

Rinse mouth. Get medical attention if any discomfort continues.

Skin contact No specific recommendations. Rinse with water. Get medical attention if any discomfort

continues.

Eye contact Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical

attention if any discomfort continues.

Protection of first aiders

Use protective equipment appropriate for surrounding materials.

4.2. Most important symptoms and effects, both acute and delayed

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General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

Inhalation Drowsiness, disziness, disorientation, vertigo. Spray/mists may cause respiratory tract

irritation.

Ingestion May cause discomfort if swallowed.

Skin contact May cause discomfort.

Eye contact May be slightly irritating to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Specific treatments No special treatment required.

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media 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.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion

products

 $Thermal\ decomposition\ or\ combustion\ products\ may\ include\ the\ following\ substances:$

Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during

firefighting

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.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions No specific recommendations. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up 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.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in

Section 8 of this safety data sheet. Avoid breathing vapour/spray. Avoid the formation of mists. 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.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash

contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store away from incompatible materials (see Section 10). No specific recommendations.

Storage class Unspecified storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Usage description Cleaning agent.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether

AEL (8-hour TWA, manufacturer): 50 ppm, 409 mg/m³
AEL (8-hour TWA, US EPA): 75 ppm, 614 mg/m³
AEL (ceiling, US EPA): 150 ppm, 1227 mg/m³

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.

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

Avoid inhalation of vapours and spray/mists. Provide adequate ventilation.

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 Avoid inhalation of vapours and spray/mists. Provide adequate ventilation. Large Spillages: If

ventilation is inadequate, suitable respiratory protection must be worn. Organic vapour filter.

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Environmental exposure

controls

Not regarded as dangerous for the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Clear liquid. Colour Colourless. Odour Slight. Ether.

pН No information available. No information available. Melting point

57°C Initial boiling point and range

Does not flash, Tag closed cup (ASTM D 56) Flash point

Evaporation rate No information available. No information available. **Evaporation factor** Flammability (solid, gas) Not applicable to liquids Upper/lower flammability or No information available.

explosive limits

Vapour pressure No information available. Vapour density No information available.

Relative density 1.36 g/mL @ 25°C

Solubility(ies) No information available. Partition coefficient No information available. Auto-ignition temperature No information available. **Decomposition Temperature** No information available. Viscosity No information available. **Explosive properties** No information available.

Explosive under the influence

of a flame

Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Volatility 100% Volatile.

SECTION 10: Stability and reactivity

10.1. Reactivity

See the other subsections of this section for further details. Reactivity

10.2. Chemical stability

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

prescribed storage conditions.

10.3. Possibility of hazardous reactions

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Possibility of hazardous

reactions

No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoidThere are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid

No specific material or group of materials is likely to react with the product to produce a

hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition

products

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

11.1. Information on toxicological effects

Toxicological information on ingredients.

1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

2,001.0

Species Rat

Notes (oral LD50) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 2,001.0

Acute toxicity - dermal

Notes (dermal LD₅o) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ vapours mg/l)

965.0

Species Rat

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

ATE inhalation (vapours

mg/l)

965.0

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye Causes serious eye irritation.

damage/irritation

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

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Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met. Carcinogenicity

IARC carcinogenicity None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity -

Based on available data the classification criteria are not met.

Reproductive toxicity -

development

fertility

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure STOT SE 3 - H336 May cause drowsiness or dizziness.

Target organs Central nervous system

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

General information The severity of the symptoms described will vary dependent on the concentration

and the length of exposure.

Inhalation A single exposure may cause the following adverse effects: Headache. Nausea,

vomiting. Central nervous system depression. Drowsiness, dizziness,

disorientation, vertigo. Narcotic effect.

Ingestion No specific symptoms known.

Skin contact No specific symptoms known.

Eye contact Irritating to eyes.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Target organs Central nervous system

PROPAN-2-OL

Carcinogenicity

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

NTP carcinogenicity Not listed.

SECTION 12: Ecological information

Ecological information on ingredients.

1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills

may have hazardous effects on the environment.

12.1. Toxicity

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Ecological information on ingredients.

1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether

Toxicity Based on available data the classification criteria are not met.

Acute aquatic toxicity

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: >160 mg/l, Daphnia magna

PROPAN-2-OL

Acute aquatic toxicity

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

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: 5102 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

IC₅₀, 72 hours: >2,000 mg/l, Algae

12.2. Persistence and degradability

Ecological information on ingredients.

1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether

Persistence and degradability

The degradability of the product is not known.

12.3. Bioaccumulative potential

Partition coefficient No information available.

Ecological information on ingredients.

1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient log Pow: 2.18

PROPAN-2-OL

Partition coefficient : 0.05

12.4. Mobility in soil

Ecological information on ingredients.

1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether

Mobility No data available.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Ecological information on ingredients.

1,1,2,2-Tetrafluoroethyl-2,2,2-trifluoroethyl ether

Other adverse effects None known.

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SECTION 13: Disposal considerations

13.1. 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 methodsDispose 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: Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

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

15.2. Chemical safety assessment

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

US-TSCA

All the ingredients are listed or exempt.

SECTION 16: Other information

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Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road

ADN: European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways.

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

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.

LC50: Lethal Concentration to 50 % of a test population.

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

EC₅₀: 50% of maximal Effective Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations

and acronyms

Eye Irrit. = Eye irritation Flam. Liq. = Flammable liquid

STOT SE = Specific target organ toxicity-single exposure

Training advice Only trained personnel should use this material.

Revision date 14/04/2022

Revision 4

Supersedes date 14/04/2022

SDS number BULK - SFOC

SDS status Approved.

Hazard statements in full H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.