



SAFETY DATA SHEET

SPR -- SUPRCLEAN DEFLUXER, BULK

According to Regulation (EU) No 453/2010
According to Regulation (EC) No 1907/2006

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name SPR -- SUPRCLEAN DEFLUXER, BULK
Product No. MCC-SPRL, MCC-SPRG, MCC-SPRP, MCC-SPRD

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 19
1804 Cargovil - Vilvoorde
Belgium
Tel: +32 2 251 95 05

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

0032-2-251-95-05 (9 AM - 5 PM, Mon- Fri)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Acute Tox. 4 - H332
Environment	Aquatic Chronic 3 - H412

Classification (1999/45/EEC)

Xn;R20. R52/53.

Human health

Prolonged skin contact may cause redness, irritation and dry skin. Mild dermatitis, allergic skin rash.

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).

2.2. Label elements

Contains trans-DICHLOROETHYLENE

Label In Accordance With (EC) No. 1272/2008

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Signal Word	Warning	
Hazard Statements	H332 H412	Harmful if inhaled. Harmful to aquatic life with long lasting effects.
Precautionary Statements	P271 P501	Use only outdoors or in a well-ventilated area. Dispose of contents/container to ...
Supplementary Precautionary Statements	P261 P273 P304+340 P312	Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

2.3. Other hazards**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

1,1,1,2,3,4,4,5,5,5-decafluoropentane	10-30%
CAS-No.: 138495-42-8	EC No.: 420-640-8
Registration Number: 01-2119446695-28-0000	
Classification (EC 1272/2008) Aquatic Chronic 3 - H412	Classification (67/548/EEC) R52/53.
ETHANOL	5-10%
CAS-No.: 64-17-5	EC No.: 200-578-6
Classification (EC 1272/2008) Flam. Liq. 2 - H225	Classification (67/548/EEC) F;R11
trans-DICHLOROETHYLENE	60-90%
CAS-No.: 156-60-5	EC No.: 205-860-2
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Acute Tox. 4 - H332 Aquatic Chronic 3 - H412	Classification (67/548/EEC) F;R11 Xn;R20 R52/53

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

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures**

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General information

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Place unconscious person on the side in the recovery position and ensure breathing can take place. Perform artificial respiration if breathing has stopped.

Inhalation

Move into fresh air and keep at rest. If respiratory problems, artificial respiration/oxygen.

Ingestion

Do not induce vomiting. Immediately rinse mouth and drink plenty of water (200-300 ml). Consult a physician for specific advice.

Skin contact

Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Consult a physician for specific advice.

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

General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation.

Vapours may cause headache, fatigue, dizziness and nausea. Difficulty in breathing. Upper respiratory irritation. Severe irritation in nose and throat.

Ingestion

May cause stomach pain or vomiting. Drowsiness, dizziness, disorientation, vertigo.

Skin contact

Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

Eye contact

Irritation of eyes and mucous membranes. Irritating and may cause redness and pain.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

When heated, toxic and corrosive vapours/gases may be formed. In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

Specific hazards

Avoid contact with naked flames and hot surfaces as corrosive and toxic decomposition products can be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Move container from fire area if it can be done without risk. Water spray should be used to cool containers.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Warn everybody of potential hazards and evacuate if necessary. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

6.2. Environmental precautions

Contain spillages with sand, earth or any suitable adsorbent material. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

6.4. Reference to other sections

See section 11 for more detailed information on health effects and symptoms.

SPR -- SUPRCLEAN DEFLUXER, BULK**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Provide good ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Avoid contact with naked flames and hot surfaces as corrosive and toxic decomposition products can be formed.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Store in tightly closed original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
ETHANOL	WEL	1000 ppm	1920 mg/m3			
trans-DICHLOROETHYLENE	ACGIH			200 ppm		

WEL = Workplace Exposure Limit.

ACGIH = American Conference of Governmental Industrial Hygienists.

Ingredient Comments

ACGIH = US Standard. WEL = Workplace Exposure Limits

8.2. Exposure controls**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

Vapours are heavier than air and may travel along the floor and in the bottom of containers. At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used. Self-contained breathing apparatus with full facepiece.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Eye protection

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

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. When using do not eat, drink or smoke.

Skin protection

Wear apron or protective clothing in case of splashes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Appearance	Clear liquid.
Colour	Colourless.
Odour	Slight odour. Ether
Solubility	Slightly soluble in water.
Initial boiling point and boiling range	41 C / 106 F
Vapour density (air=1)	3.4

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Vapour pressure	284.4 mm Hg 20
Solubility Value (G/100G H ₂ O@20°C)	.4
Flammability Limit - Lower(%)	5.0
Flammability Limit - Upper(%)	14.4

Other Flammability

This product is not flammable.

9.2. Other information

Volatility Description	Volatile
Volatile By Vol. (%)	100
UDF Phrase 1	This product is not flammable.

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Reaction with: Strong alkalis.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions**Hazardous Polymerisation**

Will not polymerise.

10.4. Conditions to avoid

Avoid contact with naked flames and hot surfaces as corrosive and toxic decomposition products can be formed.

10.5. Incompatible materials**Materials To Avoid**

Alkali metals. Alkali earth metals. Powdered metal.

10.6. Hazardous decomposition products

When heated, toxic and corrosive vapours/gases may be formed. Halogenated hydrocarbons. Hydrogen fluoride (HF). Carbon dioxide (CO₂). Carbon monoxide (CO).

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****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

Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

Eye contact

May cause temporary eye irritation.

Medical Symptoms

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

Name	ETHANOL
Toxic Dose 1 - LD 50	7,060 mg/kg (oral rat)
Toxic Conc. - LC 50	20000 mg/l/4h (inh-rat)
Name	trans-DICHLOROETHYLENE
Toxic Dose 1 - LD 50	1235 mg/kg (oral rat)
Toxic Dose 2 - LD 50	>5000 mg/kg (oral-rbt)
Toxic Conc. - LC 50	24100 ppm/4h (inh-rat)

Other Health Effects

This substance has no evidence of carcinogenic properties.

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Name	1,1,1,2,3,4,4,5,5,5-decafluoropentane
Toxic Dose 1 - LD 50	>5,000 mg/kg (oral rat)
Toxic Conc. - LC 50	11,100 ppm/4h (inh-rat)

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

Dangerous for the environment if discharged into watercourses.

12.1. Toxicity**Acute Fish Toxicity**

Very toxic to aquatic organisms.

12.2. Persistence and degradability**Degradability**

The product is not readily biodegradable.

12.3. Bioaccumulative potential**Bioaccumulative potential**

No data available on bioaccumulation.

12.4. Mobility in soil**Mobility:**

The product contains volatile substances, which may spread in the atmosphere.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

The product contains substances which contribute to global warming (greenhouse effect). The product contains a substance which has a photochemical ozone creation potential.

Name	ETHANOL
LC 50, 96 Hrs, Fish mg/l	>10,000
EC 50, 48 Hrs, Daphnia, mg/l	7,800
Name	trans-DICHLOROETHYLENE

Ecotoxicity

Low acute toxicity to aquatic organisms.

LC 50, 96 Hrs, Fish mg/l	1350
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EC 50, 48 Hrs, Daphnia, mg/l	220
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Mobility

The product has poor water-solubility.

Bioaccumulative potential

Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

Degradability

No data available.

Name	1,1,1,2,3,4,4,5,5,5-decafluoropentane
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Ecotoxicity

It is unlikely that the substance will dissolve in water in amounts big enough to have a toxic effect on fish and daphnies.

LC 50, 96 Hrs, Fish mg/l	27.2
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IC 50, 72 Hrs, Algae, mg/l	120
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Bioaccumulative potential

Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

Degradability

The product is not expected to be biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS**General information**

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

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13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

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

14.1. UN number

Not applicable. No information required.

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Not applicable. No information required.

14.4. Packing group

Not applicable. No information required.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

Not applicable. No information required.

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

Not applicable. No information required.

SECTION 15: REGULATORY INFORMATION

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

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

EU Legislation

System of specific information relating to Dangerous Preparations. 2001/58/EC.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

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

Revision Date	11/01/2012
Revision	4
Supersedes date	04/10/2011
Safety Data Sheet Status	Approved.
Date	10 January 2012

Risk Phrases In Full

R11	Highly flammable
R20	Harmful by inhalation.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.
H225	Highly flammable liquid and vapour.

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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.