



SAFETY DATA SHEET

PRO PROCLEAN FLUX REMOVER, AEROSOL

According to Regulation (EC) No 1907/2006

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

| | | | |
|---------------------|------------------------------------|---------------------|------------------------------|
| PRODUCT NAME | PRO PROCLEAN FLUX REMOVER, AEROSOL | | |
| PRODUCT NO. | #MCC-PRO, #MCC-PRO101, #MCC-PRO125 | | |
| APPLICATION | Cleaning agent | | |
| SUPPLIER | MICROCARE EUROPE BVBA | MANUFACTURER | MICROCARE CORPORATION |
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2 HAZARDS IDENTIFICATION

Highly flammable. Vapours may cause drowsiness and dizziness. Irritating to eyes.

CLASSIFICATION Xi;R36. F;R11. R67.

PHYSICAL AND CHEMICAL HAZARDS

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

HUMAN HEALTH

Splashes in the eyes may cause redness and irritation. Keep out of reach of children. See section 11 for additional information on health hazards.

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC No. | CAS-No. | Content | Classification |
|-------------|-----------|---------|---------|--------------------------------|
| ETHANOL | 200-578-6 | 64-17-5 | 30-60% | F;R11 |
| METHANOL | 200-659-6 | 67-56-1 | 1-5% | F;R11 T;R23/24/25,R39/23/24/25 |
| PROPAN-2-OL | 200-661-7 | 67-63-0 | 30-60% | F;R11 Xi;R36 R67 |

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

COMPOSITION COMMENTS

The Data Shown is in accordance with the latest EC Directives.

4 FIRST-AID MEASURES

GENERAL INFORMATION

Promptly remove any clothing that becomes wet. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INHALATION

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

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

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

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EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

SPECIAL FIRE FIGHTING PROCEDURES

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

UNUSUAL FIRE & EXPLOSION HAZARDS

Aerosol cans may explode in a fire. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SPECIFIC HAZARDS

Aerosol containers can explode when heated, due to excessive pressure build-up.

PROTECTIVE MEASURES IN FIRE

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

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

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

SPILL CLEAN UP METHODS

Wear necessary protective equipment. If leakage cannot be stopped, evacuate area. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Keep out of reach of children.

STORAGE PRECAUTIONS

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| Name | Std | TWA - 8 hrs | | STEL - 15 min | | Notes |
|-------------|-----|-------------|---------------|---------------|---------------|-------|
| | | | | | | |
| ETHANOL | WEL | 1000 ppm | 1920 mg/m3 | | | |
| METHANOL | WEL | 200 ppm(Sk) | 266 mg/m3(Sk) | 250 ppm(Sk) | 333 mg/m3(Sk) | |
| PROPAN-2-OL | WEL | 400 ppm | 999 mg/m3 | 500 ppm | 1250 mg/m3 | |

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

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RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves.

EYE PROTECTION

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

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--------------------------------------|-----------------------------|--|-------------|
| APPEARANCE | Liquid | | |
| COLOUR | Clear Colourless | | |
| ODOUR | Odour of alcohol | | |
| PHYSICAL DATA COMMENTS | Aerosol | | |
| VOLATILITY DESCRIPTION | Volatile. | | |
| SOLUBILITY | Completely soluble in water | | |
| BOILING POINT (°C) | 77.6 | VAPOUR DENSITY (air=1) | 1.82 |
| VAPOUR PRESSURE | 39 mm Hg 20 | VOLATILE BY VOL. (%) | 100 |
| FLASH POINT (°C) | 17 TOC (Tag open cup). | FLAMMABILITY LIMIT - LOWER(%) | 2.0 |
| FLAMMABILITY LIMIT - UPPER(%) | 12.7 | VOLATILE ORGANIC COMPOUND (VOC) | 785 g/litre |

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidising agents. Strong alkalis. Strong mineral acids.

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen fluoride (HF).

11 TOXICOLOGICAL INFORMATION

INHALATION

May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system.

SKIN CONTACT

Product has a defatting effect on skin. May cause skin irritation/eczema

EYE CONTACT

Irritating to eyes.

OTHER HEALTH EFFECTS

This substance has no evidence of carcinogenic properties.

| | |
|-----------------------------|------------------------|
| Name | METHANOL |
| Toxic Dose 1 - LD 50 | 13000 mg/kg (oral rat) |

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|-----------------------------|----------------------------|
| Name | ETHANOL |
| Toxic Dose 1 - LD 50 | 7,060 mg/kg (oral rat) |
| Toxic Conc. - LC 50 | 20000 mg/l/4h (inh-rat) |
| Name | PROPAN-2-OL |
| Toxic Dose 1 - LD 50 | 5045 mg/kg (oral rat) |
| Toxic Dose 2 - LD 50 | 3600 mg/kg (oral-mouse) |
| Toxic Conc. - LC 50 | 16,000 ppm/1h (inh-rat) |
| Name | HFC-134a Tetrafluoroethane |
| Toxic Dose 1 - LD 50 | >2085 mg/kg (oral rat) |

OTHER HEALTH EFFECTS

This substance has no evidence of carcinogenic properties.

12 ECOLOGICAL INFORMATION

| | |
|-------------------------------------|----------------------------|
| Name | METHANOL |
| LC 50, 96 Hrs, FISH mg/l | 1368 |
| Name | ETHANOL |
| LC 50, 96 Hrs, FISH mg/l | >10,000 |
| EC 50, 48 Hrs, DAPHNIA, mg/l | 7,800 |
| Name | PROPAN-2-OL |
| LC 50, 96 Hrs, FISH mg/l | 9,640 |
| EC 50, 48 Hrs, DAPHNIA, mg/l | 5102 |
| IC 50, 72 Hrs, ALGAE, mg/l | >2,000 |
| Name | HFC-134a Tetrafluoroethane |
| LC 50, 96 Hrs, FISH mg/l | 450 |
| EC 50, 48 Hrs, DAPHNIA, mg/l | 980 |

13 DISPOSAL CONSIDERATIONS**GENERAL INFORMATION**

Recover and reclaim or recycle, if practical.

DISPOSAL METHODS

Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

| | | | |
|-----------------------------|-----------------------------|-----------------------|----------|
| PROPER SHIPPING NAME | AEROSOLS | | |
| PROPER SHIPPING NAME | Consumer Commodity ORM-D | | |
| UN NO. ROAD | UN1950 | ADR CLASS NO. | 2.1 |
| ADR CLASS | Class 2.1: Flammable gases. | ADR PACK GROUP | 5°F |
| HAZCHEM CODE | N/A | RID CLASS NO. | 2.1 |
| RID PACK GROUP | 5°F | UN NO. SEA | 1950 |
| IMDG CLASS | 2.1 | IMDG PAGE NO. | 94 |
| IMDG PACK GR. | N/A | EMS | F-D, S-U |
| UN NO. AIR | 1950 | AIR CLASS | 2.1 |
| AIR SUB CLASS | N/A | AIR PACK GR. | N/A |

15 REGULATORY INFORMATION

PRO PROCLEAN FLUX REMOVER, AEROSOL**LABELLING**

Irritant



Highly Flammable

RISK PHRASES

| | |
|-----|---|
| R11 | Highly flammable. |
| R36 | Irritating to eyes. |
| R67 | Vapours may cause drowsiness and dizziness. |

SAFETY PHRASES

| | |
|--------|---|
| S2 | Keep out of the reach of children |
| S16 | Keep away from sources of ignition - No smoking. |
| S24/25 | Avoid contact with skin and eyes. |
| S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S51 | Use only in well-ventilated areas. |
| S60 | This material and its container must be disposed of as hazardous waste. |
| A1 | Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. |
| A2 | Do not spray on a naked flame or any incandescent material. |

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.

NATIONAL REGULATIONS

The Aerosol Dispensers (EEC Requirements)(Amendment) Regulations 1996 (SI 1996 No 2421).

16 OTHER INFORMATION

REVISION COMMENTS

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

| | |
|---|--------------|
| REVISION DATE | 12/08/2009 |
| REV. NO./REPL. SDS GENERATED | 4 |
| DATE | May 21, 2009 |

RISK PHRASES IN FULL

| | |
|--------------|---|
| R11 | Highly flammable. |
| R36 | Irritating to eyes. |
| R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| R39/23/24/25 | Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. |
| 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.