SAFETY DATA SHEET
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK


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

1.1. Product identifier
Product name PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK
Product number MCC-PROG, MCC-PROGG, MCC-PROL, MCC-PROLi, MCC-PROLG, MCC-PROP, MCC-PROPi, MCC-PROD, MCC-PROJG, MCC-PROGI
Synonyms; trade names PRO - PROCLEAN SOLVENT, BULK

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
VEKESTRAAT 29 B11
INDUSTRIEZONE ’T SAS
1910 KAMPENHOUT, Belgium
Phone +32.2.251.95.05
Fax +32.2.400.96.39

Manufacturer MICROCARE CORPORATION
595 John Downey Drive
New Britain, CT 06051
United States of America
CAGE: OATV9
Tel: +1 800-638-0125, +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 Flam. Liq. 2 - H225
Health hazards Eye Irrit. 2 - H319 STOT SE 3 - H336
Environmental hazards Not Classified

Physicochemical
The product is highly flammable. Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers.

2.2. Label elements
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

**Pictogram**

![Warning Symbol]

**Signal word**

Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 Take action to prevent static discharges.
P261 Avoid breathing vapour/ spray.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

**Supplemental label information**

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

**Contains**

PRO-2-OL

**Supplementary precautionary statements**

P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use non-sparking tools.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.

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

<table>
<thead>
<tr>
<th>ETHANOL</th>
<th>30-60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 64-17-5</td>
<td>EC number: 200-578-6</td>
</tr>
</tbody>
</table>

**Classification**

Flam. Liq. 2 - H225
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

PROPN-2-OL 30-60%
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.

Composition

SECTION 4: First aid measures

4.1. Description of first aid measures

General information  The product is flammable. CAUTION! First aid personnel must be aware of own risk during rescue! Move affected person to fresh air at once. Get medical attention if any discomfort continues.

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

Ingestion  Due to the physical nature of this material it is unlikely that swallowing will occur. Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Consult a physician for specific advice.

Skin contact  Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact  Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. 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  The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation  Vapours may cause drowsiness and dizziness. Headache. Irritation of nose, throat and airway.

Ingestion  Due to the physical nature of this material it is unlikely that swallowing will occur. Ingestion of large amounts may cause unconsciousness. May cause nausea, headache, dizziness and intoxication.

Skin contact  Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. May cause skin irritation/eczema.

Eye contact  May cause temporary eye irritation. Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

Suitable extinguishing media
Extinguish with the following media: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

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
The product is flammable. Heating may generate flammable vapours.

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

5.3. Advice for firefighters

Protective actions during firefighting
Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse 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
Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions
Avoid release to the environment. Do not 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
Warn everybody of potential hazards and evacuate if necessary. If leakage cannot be stopped, evacuate area. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely.

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

7.1. Precautions for safe handling

Usage precautions
Do not eat, drink or smoke when using the product. Eliminate all sources of ignition. Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Store in tightly-closed, original container in a dry, cool and well-ventilated place. Earth container and transfer equipment to eliminate sparks from static electricity. Keep container tightly closed. Keep away from heat, sparks and open flame.

7.3. Specific end use(s)
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

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

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

ETHANOL
Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 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

Additional Occupational Exposure Limits

Ingredient comments WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment

Appropriate engineering controls Provide adequate general and local exhaust ventilation. Avoid heat, flames and other sources of ignition.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. 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 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: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

Other skin and body protection Wear apron or protective clothing in case of 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.

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 Alcoholic.
**PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK**

- **Odour threshold**: Not determined. Not determined.
- **pH**: No information available.
- **Melting point**: No information available.
- **Initial boiling point and range**: 77°C/170.6°F @ 101.3 kPa
- **Flash point**: 12°C/54°F Tag closed cup.
- **Evaporation rate**: No information available.
- **Evaporation factor**: No information available.
- **Flammability (solid, gas)**: Not applicable.
- **Upper/lower flammability or explosive limits**: Lower flammable/explosive limit: 2.0 %(V) Upper flammable/explosive limit: 12.7 %(V)
- **Other flammability**: No information available.
- **Vapour pressure**: 5.2 kPa @ 20°C
- **Vapour density**: 1.82
- **Relative density**: 0.79
- **Bulk density**: Not applicable.
- **Solubility(ies)**: Soluble in water.
- **Partition coefficient**: No information available.
- **Auto-ignition temperature**: No information available.
- **Decomposition Temperature**: No information available.
- **Viscosity**: No information available.
- **Explosive properties**: The product is highly flammable. Vapours may form explosive mixtures with air.
- **Oxidising properties**: There are no chemical groups present in the product that are associated with oxidising properties.

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**9.2. Other information**

- **Refractive index**: No information available.
- **Particle size**: No information available.
- **Molecular weight**: No information available.
- **Vollatility**: 100%
- **Saturation concentration**: No information available.
- **Critical temperature**: No information available.
- **Volatile organic compound**: No information available.
- **UDF Phrase 1**: The product is flammable.

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**SECTION 10: Stability and reactivity**

10.1. Reactivity

**Reactivity**: There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stability
Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
Will not polymerise.

10.4. Conditions to avoid
Conditions to avoid
Avoid heat, flames and other sources of ignition. Avoid contact with the following materials:

10.5. Incompatible materials
Materials to avoid
Strong oxidising agents.

10.6. Hazardous decomposition products
Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Other health effects
There is no evidence that the product can cause cancer.

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

Ingestion
Not considered to be a significant hazard due to the small quantities used.

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

Eye contact
Irritating to eyes. Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Acute and chronic health hazards
Keep out of the reach of children.

Toxicological information on ingredients.

ETHANOL

Acute toxicity - inhalation
Acute toxicity inhalation (LC₅₀ vapours mg/l) 20,000.0
ATE inhalation (vapours mg/l) 20,000.0

Carcinogenicity
IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

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
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

Ecotoxicity

The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.

12.1. Toxicity

Toxicity

Not considered toxic to fish.

Ecological information on ingredients.

ETHANOL

Acute aquatic toxicity

Acute toxicity - fish

LC₅₀, 96 hours: >10,000 mg/l, Fish

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 7,800 mg/l, Daphnia magna

Acute toxicity - aquatic plants

, 96 hours: 1000 mg/l, Freshwater algae

PROPAN-2-OL

Acute aquatic toxicity

Acute toxicity - fish

LC₅₀, 96 hours: 9,640 mg/l, Fish

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 5102 mg/l, Daphnia magna

Acute toxicity - aquatic plants

IC₅₀, 72 hours: >2,000 mg/l, Algae

12.2. Persistence and degradability

Persistence and degradability

The product is readily biodegradable.

Ecological information on ingredients.

ETHANOL

Persistence and degradability

The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

No information available.

Ecological information on ingredients.

ETHANOL

Bioaccumulative potential

Bioaccumulation is unlikely.

Partition coefficient

No information available.

PROPAN-2-OL

Partition coefficient

: 0.05

12.4. Mobility in soil

Mobility

The product is soluble in water.
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

Ecological information on ingredients.

**ETHANOL**

**Mobility**

The product is soluble in water.

**12.5. Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment

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

**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

Materials such as cleaning rags and paper wipes that are contaminated with flammable liquids may self-ignite after use and should be stored in designated fireproof containers with tight-fitting, self-closing lids. Reuse or recycle products wherever possible.

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

**14.1. UN number**

UN No. (ADR/RID) 1993
UN No. (IMDG) 1993
UN No. (ICAO) 1993
UN No. (ADN) 1993

**14.2. UN proper shipping name**

Proper shipping name (ADR/RID) UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL SOLUTION), 3, PGII
Proper shipping name (IMDG) UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL SOLUTION), 3, PGII
Proper shipping name (ICAO) UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL SOLUTION), 3, PGII
Proper shipping name (ADN) UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL SOLUTION), 3, PGII

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

ADR/RID class 3
IMDG class 3
ICAO class/division 3

Transport labels

9/11
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

14.4. Packing group

ADR/RID packing group  II
IMDG packing group  II
ADN packing group  II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

EmS  F-E, S-D
Emergency Action Code  1Z
Hazard Identification Number (ADR/RID)  40
Tunnel restriction code  (E)

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  Not relevant.

SECTION 15: Regulatory information

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


Guidance  Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. Approved Classification and Labelling Guide (Sixth edition) L131.

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  21/03/2018
Revision  35
Supersedes date  10/03/2017
SDS number  BULK - PRO
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.