SAFETY DATA SHEET

PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

According to WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR)

1. Identification

Product identifier

Product name
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

Product number
MCC-PROG, MCC-PROGG, MCC-PROL, MCC-PROLG, MCC-PROP, MCC-PROD, MCC-PROGI, MCC-PROJG, MCC-PROPI, MCC-PROLI

Synonyms; Common Names
PRO - PROCLEAN SOLVENT, BULK

Recommended use of the chemical and restrictions on use

Restriction on use
Cleaning agent.

Uses advised against
No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier
MICROCARE LLC

Manufacturer
MICROCARE LLC
595 John Downey Drive
New Britain, CT 06051
United States of America
CAGE: OATV9
Tel: +1 800-638-0125, +1 860-827-0626
techsupport@microcare.com

Emergency telephone number

Emergency telephone
INFOTRAC 1-800-535-5053 (CANADA and U.S.A.)
1-352-323-3500 (from anywhere in the world)

2. Hazard identification

Classification of the substance or mixture

WHMIS Regulatory Status
This product has been classified according to the hazard criteria of the Hazardous Product Regulations and the SDS contains all required information.

Physical hazards
Flam. Liq. 2 - H225

Health hazards
Eye Irrit. 2 - H319 STOT SE 3 - H336

Environmental hazards
Not Classified

Label elements

Hazard pictograms

Signal word
Danger
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

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.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing vapour/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
P314 Get medical advice/attention if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with national regulations.

Supplemental label information
Safety data sheet available on request.
For use in industrial installations only.

Contains
PROPAN-2-OL

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

3. Composition/Information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Denatured Ethanol B100</th>
<th>30-60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 64-17-5</td>
<td></td>
</tr>
</tbody>
</table>

Classification
Flam. Liq. 2 - H225

<table>
<thead>
<tr>
<th>PROPN-2-OL</th>
<th>30-60% Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 67-63-0</td>
<td></td>
</tr>
</tbody>
</table>

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
TSCA: The ingredients of this product are on the TSCA Inventory. The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of CFR 1900.1200

Composition

4. First-aid measures

Description of first aid measures
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

General information
Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

Inhalation
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place.

Ingestion
Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention if symptoms are severe or persist.

Skin contact
Rinse with water.

Eye contact
Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.

Protection of first aiders
First aid personnel should wear appropriate protective equipment during any rescue.

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
A single exposure may cause the following adverse effects: Pain or irritation. Intoxication. Narcotic effect. Muscle weakness. Nausea, vomiting.

Ingestion
A single exposure may cause the following adverse effects: Intoxication. Nausea, vomiting. May cause drowsiness or dizziness. Central nervous system depression. May cause severe internal injury.

Skin contact
A single exposure may cause the following adverse effects: Pain.

Eye contact
Irritating to eyes.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media
The product is 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.

Specific hazards arising from the hazardous product

Specific hazards
Containers can burst violently or explode when heated, due to excessive pressure build-up. Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Fire-water run-off in sewers may create fire or explosion hazard.

Hazardous combustion products
Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

Advice for firefighters
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

Protective actions during firefighting
Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. 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. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter’s clothing that provides a basic level of protection during chemical incidents is defined by the Canada Occupational Health and Safety Regulations, by provincial guidelines on occupational health and safety or by NFPA standards if applicable.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated. Avoid inhalation of vapours and spray/mists. Use suitable respiratory protection if ventilation is inadequate.

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

Methods and material for containment and cleaning up

Methods for cleaning up
Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Absorb small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Large Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

Reference to other sections
For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling
Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

Advice on general occupational hygiene
Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities
Storage precautions
Store away from incompatible materials (see Section 10). Keep away from oxidizing materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

Storage class
Flammable liquid storage.

Specific end use(s)
The identified uses for this product are detailed in Section 1.

Reference to other sections
Store away from incompatible materials (see Section 10).

8. Exposure controls/Personal protection

Control parameters
Occupational exposure limits
Denatured Ethanol B100
Short-term exposure limit (15-minute): ACGIH 1000 ppm 1880 mg/m³
A3

PROPAN-2-OL
Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 492 mg/m³
Short-term exposure limit (15-minute): ACGIH 400 ppm 984 mg/m³
A4

ACGIH = American Conference of Governmental Industrial Hygienists.
A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.
A4 = Not Classifiable as a Human Carcinogen.

Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection
Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection
No specific hand protection recommended.

Other skin and body protection
Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures
Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

Respiratory protection

Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.7), and any relevant provincial regulation relating to health and safety at work. Full face mask respirators with replaceable filter cartridges should comply with the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.7), and any relevant provincial regulation relating to health and safety at work. Half mask and quarter mask respirators with replaceable filter cartridges should comply with the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.7), and any relevant provincial regulation relating to health and safety at work.

Environmental exposure controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>Alcoholic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point</td>
<td>No information available</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>77°C/170.6°F @ 101.3 kPa</td>
</tr>
<tr>
<td>Flash point</td>
<td>12°C/54°F Tag closed cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation factor</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Lower flammable/explosive limit: 2.0 %(V) Upper flammable/explosive limit: 12.7 %(V)</td>
</tr>
<tr>
<td>Other flammability</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>5.2 kPa @ 20°C</td>
</tr>
<tr>
<td>Vapour density</td>
<td>1.82</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.79</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>The product is highly flammable. Vapours may form explosive mixtures with air.</td>
</tr>
</tbody>
</table>
### PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

**Global Warming Potential (GWP)**

**Surface tension**

**Refractive index**  No information available.

**Particle size**  No information available.

**Molecular weight**  No information available.

**Volatile**  100%

**Saturation concentration**  No information available.

**Critical temperature**  No information available.

**Volatile organic compound**  No information available.

**Heat of vaporization (at boiling point), cal/g (Btu/lb)**

### 10. Stability and reactivity

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

**Stability**  Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

**Possibility of hazardous reactions**  The following materials may react strongly with the product: Oxidizing agents.

**Conditions to avoid**  Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.

**Materials to avoid**  Oxidizing materials. Acids - oxidizing.

**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.

### 11. Toxicological information

**Information on toxicological effects**

**Acute toxicity - oral**

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

**Acute toxicity - dermal**

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

**Acute toxicity - inhalation**

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

**Skin corrosion/irritation**

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

**Serious eye damage/irritation**

**Respiratory sensitization**  Causes serious eye irritation.
## PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory sensitization</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Genotoxicity - in vitro</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Contains a substance/a group of substances which may cause cancer.  IARC Group 1 Carcinogenic to humans.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Reproductive toxicity - fertility</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Reproductive toxicity - development</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td>STOT - single exposure STOT SE 3 - H336 May cause drowsiness or dizziness. STOT SE 2 - H371 May cause damage to organs.</td>
</tr>
<tr>
<td>Target organs</td>
<td>Central nervous system</td>
</tr>
<tr>
<td>Specific target organ toxicity - repeated exposure</td>
<td>STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>General information</td>
<td>The severity of the symptoms described will vary dependent on the concentration and the length of exposure.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>A single exposure may cause the following adverse effects: Pain or irritation. Intoxication. Narcotic effect. Muscle weakness. Nausea, vomiting.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>A single exposure may cause the following adverse effects: Intoxication. Nausea, vomiting. May cause drowsiness or dizziness. Central nervous system depression. May cause severe internal injury.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>A single exposure may cause the following adverse effects: Pain.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Irritating to eyes.</td>
</tr>
<tr>
<td>Acute and chronic health hazards</td>
<td>Keep out of the reach of children.</td>
</tr>
<tr>
<td>Route of exposure</td>
<td>Ingestion Inhalation Skin and/or eye contact</td>
</tr>
<tr>
<td>Target organs</td>
<td>Central nervous system</td>
</tr>
</tbody>
</table>

### Toxicological information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPAN-2-OL</td>
<td></td>
</tr>
<tr>
<td>IARC carcinogenicity</td>
<td>IARC Group 3 Not classifiable as to its carcinogenicity to humans.</td>
</tr>
<tr>
<td>NTP carcinogenicity</td>
<td>Not listed.</td>
</tr>
</tbody>
</table>
12. Ecological information

Ecotoxicity

Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

Toxicity

Based on available data the classification criteria are not met.

Ecological information on ingredients

**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

Persistence and degradability

The degradability of the product is not known.

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

No information available.

Ecological information on ingredients

**PROPAN-2-OL**

**Partition coefficient**  
0.05

Mobility in soil

Mobility  
No data available.

Other adverse effects

None known.

13. Disposal considerations

Waste treatment methods

**General information**

The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Disposal methods**

Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

14. Transport information

**UN number**
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

UN No. (TDG) 1993
UN No. (IMDG) 1993
UN No. (ICAO) 1993
UN No. (DOT) 1993

UN proper shipping name
Proper shipping name (TDG) Flammable Liquid, N.O.S. (Isopropanol)
Proper shipping name (IMDG) Flammable Liquid, N.O.S. (Isopropanol)
Proper shipping name (ICAO) Flammable Liquid, N.O.S. (Isopropanol)
Proper shipping name (DOT) Flammable Liquid, N.O.S. (Isopropanol)

Transport hazard class(es)
DOT class 3
DOT hazard label 3
TDG class 3
TDG label(s) 3
IMDG class 3
ICAO class/division 3

Transport labels

Packing group
TDG packing group II
IMDG packing group II
ICAO packing group II
DOT packing group II

Environmental hazards
Environmentally hazardous substance/marine pollutant No.

Special precautions for user
EmS F-E, S-E

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

15. Regulatory information
PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

Inventories
Canada – DSL/NDSL
DSL

16. Other information

Classification abbreviations and acronyms
Flam. Liq. = Flammable liquid
Eye Irrit. = Eye irritation
STOT SE = Specific target organ toxicity-single exposure

Training advice
Only trained personnel should use this material.

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

Revision date
2021-05-21
Revision
48
Supersedes date
2021-03-12
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.