



SAFETY DATA SHEET

PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

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

Recommended use of the chemical and restrictions on use

Application Cleaning agent.

Details of the supplier of the safety data sheet

Supplier	MICROCARE CORPORATION
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

Emergency telephone number

Emergency telephone	CHEMTREC 1-800-424-9300 (within the U.S.) +1 703-741-5970 (from anywhere in the world)
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2. Hazard(s) identification

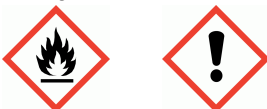
Classification of the substance or mixture

OSHA Regulatory Status	This Product is Hazardous under the OSHA Hazard Communication Standard.
Physical hazards	Flam. Liq. 2 - H225
Health hazards	Eye Irrit. 2A - H319 STOT SE 3 - H336
Environmental hazards	Not Classified

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

Label elements

Pictogram



PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Precautionary statements	P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P243 Take precautionary measures against static discharge. P261 Avoid breathing vapor/ 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	Safety data sheet available on request. For use in industrial installations only.
Contains	PROPAN-2-OL

Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

3. Composition/information on ingredients

Mixtures

PROPAN-2-OL	30-60%
CAS number: 67-63-0	
Classification Flam. Liq. 2 - H225 Eye Irrit. 2A - H319 STOT SE 3 - H336	
ETHANOL	30-60%
CAS number: 64-17-5	
Classification Flam. Liq. 2 - H225	

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 TSCA: The ingredients of this product are on the TSCA Inventory.
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Composition

4. First-aid measures

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.
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PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

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.

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.

Indication of immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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5. Fire-fighting measures

Extinguishing media

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.

Special hazards arising from the substance or mixture

Specific hazards	The product is flammable. Heating may generate flammable vapors.
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Oxides of carbon.
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 vapors.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

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.

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.

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.

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

7. Handling and storage

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 vapors. Use approved respirator if air contamination is above an acceptable level.

Conditions for safe storage, including any incompatibilities

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

Specific end uses(s)

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

PROPAN-2-OL

Long-term exposure limit (8-hour TWA): OSHA 400 ppm 980 mg/m³

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

ETHANOL

Short-term exposure limit (15-minute): ACGIH 1000 ppm 1880 mg/m³

A3

Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 1900 mg/m³

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

A4 = Not Classifiable as a Human Carcinogen.

PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

Additional Occupational Exposure Limits

Ingredient comments WEL = Workplace Exposure Limits

ETHANOL (CAS: 64-17-5)

Ingredient comments WEL = Workplace Exposure Limits

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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Clear liquid.
Color	Colorless.
Odor	Alcoholic.
Odor 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.

PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

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.
Vapor pressure	5.2 kPa @ 20°C
Vapor 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. Vapors may form explosive mixtures with air.
Oxidizing properties	There are no chemical groups present in the product that are associated with oxidizing properties.
Refractive index	No information available.
Particle size	No information available.
Molecular weight	No information available.
Volatility	100%
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.
Flammability	The product is flammable.

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures.
Possibility of hazardous reactions	Will not polymerize.
Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Strong oxidizing agents. Strong alkalis. Strong mineral acids.
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products	Fire creates: Vapors/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO ₂).

11. Toxicological information

PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

Information on toxicological effects

Other health effects	There is no evidence that the product can cause cancer.
Inhalation	May cause respiratory system irritation. Vapors 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.

PROPAN-2-OL

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 16,000.0

ATE inhalation (vapours mg/l) 16,000.0

Carcinogenicity

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

NTP carcinogenicity Not listed.

OSHA Carcinogenicity Not listed.

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.

12. Ecological Information

Ecotoxicity	The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.
Toxicity	Not considered toxic to fish.

Ecological information on ingredients.

PROPAN-2-OL

Acute aquatic toxicity

PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

Acute toxicity - fish	LC ₅₀ , 96 hours: 9,640 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 5102 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: >2,000 mg/l, Algae

ETHANOL

<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: >10,000 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 7,800 mg/l, Daphnia magna
Acute toxicity - aquatic plants	, 96 hours: 1000 mg/l, Freshwater algae

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.
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Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

PROPAN-2-OL

Partition coefficient : 0.05

ETHANOL

Bio-Accumulative Potential Bioaccumulation is unlikely.

Partition coefficient No information available.

Mobility in soil

Mobility The product is soluble in water.

Ecological information on ingredients.

ETHANOL

Mobility The product is soluble in water.

Other adverse effects

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

13. Disposal considerations

PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

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.

14. Transport information

UN Number

UN No. (TDG)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993
UN No. (DOT)	UN1993

UN proper shipping name

Proper shipping name (TDG)	FLAMMABLE LIQUID, N.O.S. (CONTAINS ETHANOL, PROPAN-2-OL)
Proper shipping name (IMDG)	FLAMMABLE LIQUID, N.O.S. (CONTAINS ETHANOL, PROPAN-2-OL)
Proper shipping name (ICAO)	FLAMMABLE LIQUID, N.O.S. (CONTAINS ETHANOL, PROPAN-2-OL)
Proper shipping name (DOT)	FLAMMABLE LIQUIDS, N.O.S. (CONTAINS ETHANOL, PROPAN-2-OL)

Transport hazard class(es)

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

Transport labels



DOT transport labels



Packing group

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

Environmental hazards

PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

Environmentally Hazardous Substance

No.

Special precautions for user

EmS F-E, S-E

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Not listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Not listed.

CAA Accidental Release Prevention

Not listed.

SARA (311/312) Hazard Categories

Acute
Fire

OSHA Highly Hazardous Chemicals

Not listed.

US State Regulations

California Air Toxics "Hot Spots" (A-I)

PROPAN-2-OL

Present.

California Air Toxics "Hot Spots" (A-II)

Not listed.

California Directors List of Hazardous Substances

PROPAN-2-OL

Present.

Massachusetts "Right To Know" List

PROPAN-2-OL

Present.

ETHANOL

Present.

Rhode Island "Right To Know" List

PROPAN-2-OL

Present.

ETHANOL

Present.

PRO - ALCOHOL ENHANCED FLUX REMOVER-PROCLEAN, BULK

Minnesota "Right To Know" List

PROPAN-2-OL

Present.

ETHANOL

Present.

New Jersey "Right To Know" List

PROPAN-2-OL

Present.

ETHANOL

Present.

Pennsylvania "Right To Know" List

PROPAN-2-OL

Present.

ETHANOL

Present.

Inventories

Canada - DSL/NDSL

Yes

US - TSCA

Yes

16. Other information

Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	4/30/2018
Revision	36
Supersedes date	3/21/2018
SDS No.	BULK - PRO
SDS status	Approved.
Hazard statements in full	H225 Highly flammable liquid and vapor. 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.