SAFETY DATA SHEET
Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

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

1.1. Product identifier
Product name: Alcohol-Enhanced Flux Remover-ProClean, AEROSOL
Product number: MCC-PRO127

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Cleaning agent.
Uses advised against: No specific uses advised against are identified.

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

Contact person: eurosales@microcare.com

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: Aerosol 1 - H222, H229

Health hazards: Acute Tox. 4 - H302 Eye Irrit. 2 - H319 STOT SE 2 - H371 STOT SE 3 - H336

Environmental hazards: Not Classified

2.2. Label elements
Pictogram:

[Image of pictograms: flame, exclamation mark, and hazard sign]
Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H371 May cause damage to organs.
H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing spray.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Supplemental label information

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

Contains

PROPN-2-OL, methanol

Supplementary precautionary statements

P260 Do not breathe spray.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.
P330 Rinse mouth.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

This product contains a substance classified as PBT.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Composition</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>PROPAN-2-OL</td>
<td>30-60%</td>
</tr>
</tbody>
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<table>
<thead>
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<th>Classification</th>
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<tr>
<td>Flam. Liq. 2 - H225</td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
</tr>
<tr>
<td>STOT SE 3 - H336</td>
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Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>CAS number</th>
<th>EC number</th>
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<tr>
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<td>64-17-5</td>
<td>200-578-6</td>
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<td>Classification</td>
<td></td>
<td></td>
<td>Flam. Liq. 2 - H225</td>
</tr>
<tr>
<td>PROANE</td>
<td>5-10%</td>
<td>74-98-6</td>
<td>200-827-9</td>
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<tr>
<td>Classification</td>
<td></td>
<td></td>
<td>Flam. Gas 1 - H220</td>
</tr>
<tr>
<td>BUTANE</td>
<td>1-5%</td>
<td>106-97-8</td>
<td>203-448-7</td>
</tr>
<tr>
<td>Classification</td>
<td></td>
<td></td>
<td>Flam. Gas 1 - H220</td>
</tr>
<tr>
<td>ISOBUTANE</td>
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<td>75-28-5</td>
<td>200-857-2</td>
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<tr>
<td>Classification</td>
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<td></td>
<td>Flam. Gas 1 - H220</td>
</tr>
<tr>
<td>METHANOL</td>
<td>1-5%</td>
<td>67-56-1</td>
<td>200-659-6</td>
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<tr>
<td>Classification</td>
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<td></td>
<td>Flam. Liq. 2 - H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 3 - H301</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 3 - H311</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 3 - H331</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 1 - H370</td>
</tr>
</tbody>
</table>

The full text for all hazard statements is displayed in Section 16.

Composition

SECTION 4: First aid measures

4.1. Description of first aid measures

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.
Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

### 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.

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

#### Ingestion
Due to the physical nature of this product, it is unlikely that ingestion will occur.

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

#### Eye contact
Irritating to eyes.

### 4.3. Indication of any immediate medical attention and special treatment needed
#### Notes for the doctor
Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. 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.

#### 5.2. Special hazards arising from the substance or mixture
**Specific hazards**
Containers can burst violently or explode when heated, due to excessive pressure build-up. Bursting aerosol containers may be propelled from a fire at high speed. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Vapours may form explosive mixtures with air. This product is toxic.

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

#### 5.3. Advice for firefighters
**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 conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.
Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

SECTION 6: Accidental release measures

6.1. 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. Risk of explosion. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated.

6.2. Environmental precautions

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

6.3. 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. Provide adequate ventilation. Under normal conditions of handling and storage, spillages from aerosol containers are unlikely. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Small Spillages: Wipe up with an absorbent cloth and dispose of waste safely. 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. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

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. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
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. Avoid exposing aerosol containers to high temperatures or direct sunlight. 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. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin. Avoid contact with eyes. Avoid inhalation of vapours and spray/mists.

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

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Store away from incompatible materials (see Section 10). Keep away from oxidising 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. Protect from sunlight. Do not store near heat sources or expose to high temperatures. Do not expose to temperatures exceeding 50°C/122°F.

Storage class
Chemical storage.
Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

7.3. Specific end use(s)

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

Occupational exposure limits

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

Ethanol
Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

BUTANE
Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m³
Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m³

METHANOL
Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³
Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Sk
WEL = Workplace Exposure Limit
Sk = Can be absorbed through the skin.

Additional Occupational Exposure Limits

8.2. 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.

Respiratory protection
Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.
Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

**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.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<td>Appearance</td>
<td>Liquid.</td>
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<td>Colour</td>
<td>Clear liquid. Colourless.</td>
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<td>Odour</td>
<td>Alcoholic.</td>
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<td>pH</td>
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<td>Initial boiling point and range</td>
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<td>Flash point</td>
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<tr>
<td>Upper/lower flammability or explosive limits</td>
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</tr>
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<td>Other flammability</td>
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<tr>
<td>Vapour pressure</td>
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#### 9.2. Other information

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<td>Critical temperature</td>
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</table>
Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

UDF Phrase 1  Flammable aerosol

SECTION 10: Stability and reactivity

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

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

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

10.4. Conditions to avoid
Conditions to avoid
Avoid exposing aerosol containers to high temperatures or direct sunlight. Pressurised container: may burst if heated

10.5. Incompatible materials
Materials to avoid
No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products
Hazardous decomposition products
Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity - oral
Notes (oral LD₅₀)  Acute Tox. 4 - H302 Harmful if swallowed.
ATE oral (mg/kg)  1,193.32

Acute toxicity - dermal
Notes (dermal LD₅₀)  Based on available data the classification criteria are not met.
ATE dermal (mg/kg)  18,841.85

Acute toxicity - inhalation
Notes (inhalation LC₅₀)  Based on available data the classification criteria are not met.
ATE inhalation (vapours mg/l)  188.42
ATE inhalation (dusts/mists mg/l)  31.4

Skin corrosion/irritation
Animal data  Based on available data the classification criteria are not met.

Serious eye damage/irritation
Serious eye damage/irritation  Causes serious eye irritation.

Respiratory sensitisation
Respiratory sensitisation  Based on available data the classification criteria are not met.

Skin sensitisation
Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

**Skin sensitisation**

Based on available data the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data the classification criteria are not met.

**Genotoxicity - in vitro**

Based on available data the classification criteria are not met.

**Carcinogenicity**

Based on available data the classification criteria are not met.

**IARC carcinogenicity**

Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable as to its carcinogenicity to humans.

**Reproductive toxicity**

Based on available data the classification criteria are not met.

**Specific target organ toxicity - single exposure**

STOT - single exposure

STOT SE 3 - H336 May cause drowsiness or dizziness. STOT SE 2 - H371 May cause damage to organs.

**Target organs**

Central nervous system

**Specific target organ toxicity - repeated exposure**

STOT - repeated exposure

Not classified as a specific target organ toxicant after repeated exposure.

**Aspiration hazard**

Based on available data the classification criteria are not met.

**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**

Due to the physical nature of this product, it is unlikely that ingestion will occur.

**Skin contact**

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

**Eye contact**

Irritating to eyes.

**Route of exposure**

Ingestion Inhalation Skin and/or eye contact

**Target organs**

Central nervous system

**Toxicological information on ingredients.**

**PROPAN-2-OL**

**Carcinogenicity**

IARC carcinogenicity

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

NTP carcinogenicity

Not listed.

**Ethanol**

**Acute toxicity - oral**

Notes (oral LD₅₀)

Based on available data the classification criteria are not met.

**Acute toxicity - dermal**
Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

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

Acute toxicity - inhalation Based on available data the classification criteria are not met.

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

Skin corrosion/irritation Based on available data the classification criteria are not met.

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

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation Based on available data the classification criteria are not met.

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity Based on available data the classification criteria are not met.

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

Reproductive toxicity Based on available data the classification criteria are not met.

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard Based on available data the classification criteria are not met.

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation No specific symptoms known.

Ingestion No specific symptoms known.

Skin contact No specific symptoms known.

Eye contact No specific symptoms known.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Target organs No specific target organs known.
Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

METHANOL

Acute toxicity - oral
Notes (oral LD₅₀) Acute Tox. 3 - H301 Toxic if swallowed.
ATE oral (mg/kg) 100.0

Acute toxicity - dermal
Notes (dermal LD₅₀) Acute Tox. 3 - H311 Toxic in contact with skin.
ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation
Notes (inhalation LC₅₀) Acute Tox. 3 - H331 Toxic if inhaled.
ATE inhalation (vapours mg/l) 3.0
ATE inhalation (dusts/mists mg/l) 0.5

Skin corrosion/irritation
Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation
Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation
Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation
Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity
Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity
Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity None of the ingredients are listed or exempt.

Reproductive toxicity
Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure
STOT - single exposure STOT SE 1 - H370 Causes damage to organs.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard
Aspiration hazard Based on available data the classification criteria are not met.
Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

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: Drowsiness, dizziness, disorientation, vertigo. Unconsciousness. High concentrations may be fatal.

Ingestion
May cause stomach pain or vomiting. May cause severe internal injury.

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

Eye contact
No specific symptoms known.

Route of exposure
Ingestion Inhalation Skin and/or eye contact

Target organs
No specific target organs known.

SECTION 12: Ecological Information

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

Ecological information on ingredients.

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

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

12.1. Toxicity
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

Ethanol
Toxicity
Based on available data the classification criteria are not met.

METHANOL
Toxicity
Based on available data the classification criteria are not met.

Acute aquatic toxicity
Acute toxicity - fish
LC₅₀, 96 hours: >100 mg/l, Pimephales promelas (Fat-head Minnow)
Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: >10000 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability   The degradability of the product is not known.

Ecological information on ingredients.

Ethanol

Persistence and degradability   The degradability of the product is not known.

METHANOL

Persistence and degradability   The degradability of the product is not known.

12.3. Bioaccumulative potential

Bioaccumulative potential   No data available on bioaccumulation.

Partition coefficient   No information available.

Ecological information on ingredients.

PROPAN-2-OL

Partition coefficient   : 0.05

Ethanol

Bioaccumulative potential   No data available on bioaccumulation.

METHANOL

Bioaccumulative potential   No data available on bioaccumulation.

Partition coefficient   : -0.77

12.4. Mobility in soil

Mobility   The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

Ecological information on ingredients.

Ethanol

Mobility   No data available.

METHANOL

Mobility   No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment   This product contains substances classified as PBT.

12.6. Other adverse effects
Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

Other adverse effects
None known.

Ecological information on ingredients.

Ethanol

Other adverse effects
None known.

METHANOL

Other adverse effects
None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information
The generation of waste should be minimised 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. Empty containers must not be punctured or incinerated because of the risk of an explosion. 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, labelled with their contents.

SECTION 14: Transport information

General
Requirements for marking and labeling of package varies depending on mode of transport. If uncertain of proper markings and labeling, call MicroCare for assistance.

14.1. UN number

UN No. (ADR/RID) F1
UN No. (IMDG) 1950
UN No. (ICAO) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) LIMITED QUANTITY
Proper shipping name (IMDG) UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY
Proper shipping name (ICAO) UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY

14.3. Transport hazard class(es)

IMDG class 2.1 LIMITED QUANTITY
ICAO class/division 2.1 LIMITED QUANTITY

14.4. Packing group

ADR/RID packing group N/A
IMDG packing group N/A
Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

ICAO packing group N/A
ADN packing group N/A

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
EmS F-D, S-U
ADR transport category 2
Emergency Action Code •3YE
Hazard Identification Number (ADR/RID) 23

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 applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations
Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EH40/2005 Workplace exposure limits.

EU legislation

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

Inventories
EU - EINECS/ELINCS
None of the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
Not listed.

SECTION 16: Other information
Alcohol-Enhanced Flux Remover-ProClean, AEROSOL

<table>
<thead>
<tr>
<th>Abbreviations and acronyms used in the safety data sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</td>
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<tr>
<td>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</td>
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<tr>
<td>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</td>
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<td>IATA: International Air Transport Association.</td>
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<td>IMDG: International Maritime Dangerous Goods.</td>
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<tr>
<td>CAS: Chemical Abstracts Service.</td>
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<tr>
<td>ATE: Acute Toxicity Estimate.</td>
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<tr>
<td>LC₅₀: Lethal Concentration to 50 % of a test population.</td>
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<tr>
<td>LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).</td>
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<tr>
<td>EC₅₀: 50% of maximal Effective Concentration.</td>
</tr>
<tr>
<td>PBT: Persistent, Bioaccumulative and Toxic substance.</td>
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<tr>
<td>vPvB: Very Persistent and Very Bioaccumulative.</td>
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</table>

<table>
<thead>
<tr>
<th>Classifications abbreviations and acronyms</th>
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<tbody>
<tr>
<td>Aerosol = Aerosol</td>
</tr>
<tr>
<td>Acute Tox. = Acute toxicity</td>
</tr>
<tr>
<td>Eye Irrit. = Eye irritation</td>
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<tr>
<td>STOT SE = Specific target organ toxicity-single exposure</td>
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<table>
<thead>
<tr>
<th>Classification procedures according to Regulation (EC) 1272/2008</th>
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<tr>
<th>Training advice</th>
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<tbody>
<tr>
<td>Only trained personnel should use this material.</td>
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<th>Revision date</th>
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<th>Supersedes date</th>
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<td>10/09/2018</td>
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<tr>
<th>SDS number</th>
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<tr>
<td>AEROSOL - PRO127</td>
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<tr>
<th>Hazard statements in full</th>
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</thead>
<tbody>
<tr>
<td>H220 Extremely flammable gas.</td>
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<tr>
<td>H222 Extremely flammable aerosol.</td>
</tr>
<tr>
<td>H225 Highly flammable liquid and vapour.</td>
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<tr>
<td>H229 Pressurised container: may burst if heated.</td>
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<tr>
<td>H301 Toxic if swallowed.</td>
</tr>
<tr>
<td>H302 Harmful if swallowed.</td>
</tr>
<tr>
<td>H311 Toxic in contact with skin.</td>
</tr>
<tr>
<td>H319 Causes serious eye irritation.</td>
</tr>
<tr>
<td>H331 Toxic if inhaled.</td>
</tr>
<tr>
<td>H336 May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>H370 Causes damage to organs .</td>
</tr>
<tr>
<td>H371 May cause damage to organs .</td>
</tr>
</tbody>
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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.