SAFETY DATA SHEET
PROW - ALCOHOL-ENHANCED PRESATURATED WIPES, PROCLEAN

1. Identification

Product identifier

Product name
PROW - ALCOHOL-ENHANCED PRESATURATED WIPES, PROCLEAN

Product number
MCC-PROW,MCC-PROWR,MCC-PROWY,MCC-PROWYR

Synonyms; trade names
"PROW-ProClean Solvent Presaturated Wipes"; "PROWR-Stencil Wipes with ProClean Presaturated Wipes/Refill"

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: +1 860-827-0626
Fax: +1 860-827-8105
technical@microcare.com

Emergency telephone number

Emergency telephone
CHEMTREC (800) 424-9300

2. Hazard(s) Identification

Classification of the substance or mixture

Physical hazards
Flam. Liq. 2 - H225

Health hazards
Eye Irrit. 2A - H319 Repr. 2 - H361 STOT SE 1 - H370 STOT SE 3 - H335 STOT RE 2 - H373

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

Signal word
Danger
PROW - ALCOHOL-ENHANCED PRESATURATED WIPES, PROCLEAN

Hazard statements
H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H361 Suspected of damaging fertility or the unborn child.
H370 Causes damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.

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.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
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, ETHANOL, METHANOL

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

3. Composition/Information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPAN-2-OL</td>
<td>67-63-0</td>
<td>30-60%</td>
</tr>
<tr>
<td>ETHANOL</td>
<td>64-17-5</td>
<td>30-60%</td>
</tr>
</tbody>
</table>

Classification

PROPAN-2-OL
Flam. Liq. 2 - H225
Eye Irrit. 2A - H319
STOT SE 3 - H338

ETHANOL
Flam. Liq. 2 - H225
Eye Irrit. 2A - H319
STOT SE 3 - H335
PROW - ALCOHOL-ENHANCED PRESATURATED WIPES, PROCLEAN

METHANOL
CAS number: 67-56-1

Classification
Flam. Liq. 2 - H225
Acute Tox. 3 - H301
Acute Tox. 3 - H311
Acute Tox. 3 - H331
STOT SE 1 - H370

The Full Text for all Hazard Statements are Displayed in Section 16.

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

4. First-aid measures

Description of first aid measures

General information
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.

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.

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.
**PROW - ALCOHOL-ENHANCED PRESATURATED WIPES, PROCLEAN**

**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**
Considering the size of the packaging, the risk is regarded as minimal. The product is highly flammable. 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.

**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**

**Personal precautions**
Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation.

**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. 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. Keep container tightly closed. Keep away from heat, sparks and open flame.

**Specific end uses(s)**
The identified uses for this product are detailed in Section 1.2.
PROW - ALCOHOL-ENHANCED PRESATURATED WIPES, PROCLEAN

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

ETHANOL
Long-term exposure limit (8-hour TWA): ACGIH
Short-term exposure limit (15-minute): ACGIH 1000 ppm

METHANOL
Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 262 mg/m³
Short-term exposure limit (15-minute): ACGIH 250 ppm 328 mg/m³
Sk
Long-term exposure limit (8-hour TWA): OSHA 200 ppm 260 mg/m³
OSHA = Occupational Safety and Health Administration.
ACGIH = American Conference of Governmental Industrial Hygienists.
Sk = Danger of cutaneous absorption.
A4 = Not Classifiable as a Human Carcinogen.

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

Hygiene measures
Do not smoke in work area. Wash hands 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
PROW - ALCOHOL-ENHANCED PRESATURATED WIPES, PROCLEAN

Appearance Clear liquid.
Color Colorless.
Odor Alcoholic.
Odor threshold No information available.
pH No information available.
Initial boiling point and range 77.6°C @ 760 mm Hg
Flash point 12°C TCC (Tag closed cup).
Upper/lower flammability or explosive limits Lower flammable/explosive limit: 2.0 Upper flammable/explosive limit: 12.7
Vapor pressure 39 mm Hg @ 20°C
Vapor density 1.82
Solubility(ies) Soluble in water.
Oxidising properties There are no chemical groups present in the product that are associated with oxidizing properties.
Comments Information given is applicable to the major ingredient.
Volutility 100%
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.

11. Toxicological information

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.
PROW - ALCOHOL-ENHANCED PRESATURATED WIPES, PROCLEAN

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**

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - oral</td>
<td>5,800.0</td>
</tr>
<tr>
<td>Acute toxicity oral (LD₅₀ mg/kg)</td>
<td>5,800.0</td>
</tr>
<tr>
<td>Species</td>
<td>Rat</td>
</tr>
<tr>
<td>ATE oral (mg/kg)</td>
<td>5,800.0</td>
</tr>
<tr>
<td>Acute toxicity - dermal</td>
<td>13,000.0</td>
</tr>
<tr>
<td>Acute toxicity dermal (LD₅₀ mg/kg)</td>
<td>13,000.0</td>
</tr>
<tr>
<td>Species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>ATE dermal (mg/kg)</td>
<td>13,000.0</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation</td>
<td>16,000.0</td>
</tr>
<tr>
<td>Acute toxicity inhalation (LC₅₀ vapours mg/l)</td>
<td>16,000.0</td>
</tr>
<tr>
<td>Species</td>
<td>Rat</td>
</tr>
<tr>
<td>ATE Inhalation (vapours mg/l)</td>
<td>16,000.0</td>
</tr>
</tbody>
</table>

Carcinogenicity
IARC carcinogenicity: IARC Group 3 Not classifiable as to its carcinogenicity to humans.
NTP carcinogenicity: Not listed.
OSHA Carcinogenicity: Not listed.

**METHANOL**

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - oral</td>
<td>7,300.0</td>
</tr>
<tr>
<td>Acute toxicity oral (LD₅₀ mg/kg)</td>
<td>7,300.0</td>
</tr>
<tr>
<td>Species</td>
<td>Mouse</td>
</tr>
<tr>
<td>ATE oral (mg/kg)</td>
<td>100.0</td>
</tr>
<tr>
<td>Acute toxicity - dermal</td>
<td>15,800.0</td>
</tr>
<tr>
<td>Acute toxicity dermal (LD₅₀ mg/kg)</td>
<td>15,800.0</td>
</tr>
<tr>
<td>Species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>ATE dermal (mg/kg)</td>
<td>300.0</td>
</tr>
</tbody>
</table>
PROW - ALCOHOL-ENHANCED PRESATURATED WIPES, PROCLEAN

Acute toxicity - inhalation

| Acute toxicity inhalation (LC₅₀ vapours mg/l) | 64,000.0 |
| Species | Rat |
| ATE inhalation (vapours mg/l) | 3.0 |

12. Ecological Information

Ecotoxicity

There are no data on the ecotoxicity of this product.

Toxicity

Ecological information on ingredients.

**PROPAN-2-OL**

- **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**

- **Acute toxicity - fish**: LC₅₀, 96 hours: >10,000 mg/l, Fish
- **Acute toxicity - aquatic invertebrates**: EC₅₀, 48 hours: 7,800 mg/l, Daphnia magna

**METHANOL**

- **Acute toxicity - fish**: LC₅₀, 96 hours: >100 mg/l, Pimephales promelas (Fat-head Minnow)
- **Acute toxicity - aquatic invertebrates**: EC₅₀, 48 hours: >10000 mg/l, Daphnia magna

Persistence and degradability

The product contains mainly inorganic substances which are not biodegradable. The other substances in the product are expected to be readily biodegradable.

Bioaccumulative potential

Bio-Accumulative Potential

No data available on bioaccumulation.

Mobility in soil

Mobility

The product is soluble in water.

Results of PBT and vPvB assessment

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

Other adverse effects

The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.
PROW - ALCOHOL-ENHANCED PRESATURATED WIPES, PROCLEAN

13. Disposal considerations

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. Waste packaging should be collected for reuse or recycling. 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. (DOT) 3175
UN No. (TDG) 3175
UN No. (IMDG) 3175
UN No. (ICAO) 3175

UN proper shipping name
Proper shipping name (DOT) SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)
Proper shipping name (TDG) SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)
Proper shipping name (IMDG) SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.

Proper shipping name (ICAO) SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.

Transport hazard class(es)
TDG class 4.1
TDG label 4.1
IMDG Class 4.1
ICAO class/division 4.1

Transport labels

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

Environmental hazards
Environmentally Hazardous Substance No.

Special precautions for user
EmS F-A, S-I
PROW - ALCOHOL-ENHANCED PRESATURATED WIPES, PROCLEAN

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.

SARA (311/312) Hazard Categories
Fire
Acute

OSHA Highly Hazardous Chemicals
Not listed.

US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins
METHANOL
Known to the State of California to cause developmental and reproductive toxicity.

California Air Toxics "Hot Spots" (A-I)
PROPAN-2-OL
Present.
METHANOL
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
Not listed.
ETHANOL
Yes.
PROPAN-2-OL
Present.
METHANOL
Present.

Rhode Island "Right To Know" List
ETHANOL
Yes.
PROPAN-2-OL
Present.
PROW - ALCOHOL-ENHANCED PRESATURATED WIPES, PROCLEAN

METHANOL
Present.

Minnesota "Right To Know" List

ETHANOL
Yes.

PROPAN-2-OL
Present.

METHANOL
Present.

New Jersey "Right To Know" List

ETHANOL
Yes.

PROPAN-2-OL
Present.

METHANOL
Present.

Pennsylvania "Right To Know" List

ETHANOL
Yes.

PROPAN-2-OL
Present.

METHANOL
Present.

16. Other information

<table>
<thead>
<tr>
<th>Revision comments</th>
<th>NOTE: Lines within the margin indicate significant changes from the previous revision.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>2/9/2016</td>
</tr>
<tr>
<td>Revision</td>
<td>17</td>
</tr>
<tr>
<td>Supersedes date</td>
<td>2/8/2016</td>
</tr>
<tr>
<td>SDS No.</td>
<td>PRESAT - PRO</td>
</tr>
<tr>
<td>SDS status</td>
<td>Approved</td>
</tr>
<tr>
<td>Hazard statements in full</td>
<td>H225 Highly flammable liquid and vapor.</td>
</tr>
<tr>
<td></td>
<td>H301 Toxic if swallowed.</td>
</tr>
<tr>
<td></td>
<td>H311 Toxic in contact with skin.</td>
</tr>
<tr>
<td></td>
<td>H319 Causes serious eye irritation.</td>
</tr>
<tr>
<td></td>
<td>H331 Toxic if inhaled.</td>
</tr>
<tr>
<td></td>
<td>H335 May cause respiratory irritation.</td>
</tr>
<tr>
<td></td>
<td>H336 May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td></td>
<td>H361 Suspected of damaging fertility or the unborn child.</td>
</tr>
<tr>
<td></td>
<td>H370 Causes damage to organs.</td>
</tr>
<tr>
<td></td>
<td>H373 May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
</tbody>
</table>

11/12
### PROW - ALCOHOL-ENHANCED PRESATURATED WIPES, PROCLEAN

<table>
<thead>
<tr>
<th>NFPA - health hazard</th>
<th>Irritation, minor residual injury. (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA - flammability hazard</td>
<td>Ignites easily. (3)</td>
</tr>
<tr>
<td>NFPA - instability hazard</td>
<td>Unstable if heated. (1)</td>
</tr>
<tr>
<td>NFPA - special hazard</td>
<td>N/A</td>
</tr>
<tr>
<td>ACA HMIS Health rating.</td>
<td>Slight Hazard. (1)</td>
</tr>
<tr>
<td>ACA HMIS Flammability rating.</td>
<td>Ignites easily. (3)</td>
</tr>
<tr>
<td>ACA HMIS Physical hazard rating.</td>
<td>Unstable if heated. (1)</td>
</tr>
<tr>
<td>ACA HMIS Personal protection rating.</td>
<td>B</td>
</tr>
</tbody>
</table>

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.