

Revision Date 10/10/2014
Revision 8
Supersedes Date 08/19/2014



SAFETY DATA SHEET

PROW - ALCOHOL-ENHANCED PRESATURATED WIPES, PROCLEAN

1. IDENTIFICATION

Product Name	PROW - ALCOHOL-ENHANCED PRESATURATED WIPES, PROCLEAN
Product No.	MCC-PROW, MCC-PROWR, MCC-PROWY, MCC-PROWYR
Synonyms, Trade Names	"PROW-ProClean Solvent Presaturated Wipes"; "PROWR-Stencil Wipes with ProClean Presaturated Wipes/Refill"
Identification No.	UN3175
Identified uses	Cleaning agent.
Supplier	MicroCare Corporation 595 John Downey Drive New Britain, CT 06019 United States of America Toll Free: 1-800-638-0125 Tel: 1-860-827-0626 Web: www.MicroCare.com email: techsupport@microcare.com
www.MicroCare.com	
Emergency Telephone	CHEMTREC (800) 424-9300

2. HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW

33 Highly flammable liquid (flash-point below 23°C). Colourless liquid. Odor of alcohol. The liquid is irritating to eyes and skin. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Vapors may be ignited by a spark, a hot surface or an ember.

Appearance	Clear liquid.
Color	Colourless.
Odor	Odor of alcohol.
GHS Pictogram	



Signal Word Danger

Hazard Statements

H224	Extremely flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P271	Use only outdoors or in a well-ventilated area.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313	Get medical advice/attention.
P501	Dispose of contents/container in accordance with local regulations.

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GHS Classification

Physical and Chemical Hazards	Flam. Liq. 1 - H224
Human health	Eye Irrit. 2 - H319; STOT SE 3 - H336
Environment	Not classified.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

WHMIS Label



Flammable Liquid.



Materials Causing Other Toxic Effects.

Controlled Product Classification

Canadian WHMIS Classification D2 B2 WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CPR SECTION (33)) This product has been classified according to the hazard criteria of the Controlled Product Regulations, and the MSDS contains all required information.

Inhalation

May cause irritation to the respiratory system. Vapors may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion

Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small.

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.

Health Warnings

Keep out of the reach of children.

Other Health Effects

This substance has no evidence of carcinogenic properties.

Physical And Chemical Hazards

The product is highly flammable, and explosive vapors/air mixtures may be formed even at normal room temperatures. Vapors are heavier than air and may travel along the floor and in the bottom of containers.

3. COMPOSITION/INFORMATION ON INGREDIENTS

ETHANOL	30-60%
CAS No.: 64-17-5	EC No.: 200-578-6
GHS Classification Flam. Liq. 2 - H225	
METHANOL	1-5%
CAS No.: 67-56-1	EC No.: 200-659-6
GHS Classification Flam. Liq. 2 - H225; Acute Tox. 3 - H301; Acute Tox. 3 - H311; Acute Tox. 3 - H331; STOT SE 1 - H370	

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PROPAN-2-OL	30-60%
CAS No.: 67-63-0	EC No.: 200-661-7
GHS Classification Flam. Liq. 2 - H225; Eye Irrit. 2 - H319; STOT SE 3 - H336	

4. FIRST-AID MEASURES**Description of first aid measures****General Information**

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation

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

Ingestion

Due to the physical nature of this material it is unlikely that swallowing will occur. DO NOT INDUCE VOMITING! Immediately rinse mouth and drink plenty of water (200-300 ml). Do not give victim anything to drink if he is unconscious. Consult a physician for specific advice.

Skin Contact

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. 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 dependant of the concentration and the length of exposure.

Inhalation

Vapors 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 redness, itching, irritation and eczema/chapping. May cause skin irritation/eczema.

Eye Contact

May cause temporary eye irritation. Irritating and may cause redness and pain.

Indication of any immediate medical attention and special treatment needed**Notes To The Physician**

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

5. FIRE-FIGHTING MEASURES

Flammability Limit - Lower(%)	2.0
Flammability Limit - Upper(%)	12.7
Flash point (°C)	12 TCC (Tag closed cup).

Extinguishing Media

Use: 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.

Hazardous combustion products

During fire, toxic gases (CO, CO₂) are formed.

Unusual Fire & Explosion Hazards

HIGHLY FLAMMABLE! Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket.

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Specific Hazards

Considering the size of the packaging, the risk is regarded as minimal.

Special Fire Fighting Procedures

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapors.

Protective Equipment For Fire-Fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use protective gloves, goggles and suitable protective clothing. Do not smoke, use open fire or other sources of ignition. Provide adequate ventilation.

Environmental Precautions

Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.

Spill Clean Up Methods

Warn everybody of potential hazards and evacuate if necessary. If leakage cannot be stopped, evacuate area. Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Dam and absorb spillages with sand, earth or other non-combustible material. Collect in containers and seal securely.

Reference to other sections

For personal protection, see section 8. See section 11 for more detailed information on health effects and symptoms.

7. HANDLING AND STORAGE

Handling

Do not eat, drink or smoke when using the product. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level.

Storage

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep containers tightly closed. Keep away from heat, sparks and open flame.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
ETHANOL	ACGIH			1000 ppm		A3
ETHANOL	PEL	1000 ppm	1900 mg/m3			
METHANOL	ACGIH	200 ppm		250 ppm		Skin
METHANOL	PEL	200 ppm	260 mg/m3			
PROPAN-2-OL	ACGIH	200 ppm		400 ppm		A4
PROPAN-2-OL	PEL	400 ppm	980 mg/m3			

COMPONENT	IDLH
ETHANOL	3300 ppm
METHANOL	6000 ppm
PROPAN-2-OL	2000 ppm

ACGIH=American Conference of Governmental Industrial Hygienists.

Skin: Danger of cutaneous absorption. (ACGIH)

A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans.

A4: Not Classifiable as a Human Carcinogen.

Ingredient Comments

WEL = Workplace Exposure Limits

Protective Equipment

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

Respiratory Equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit

Hand Protection

Chemical resistant gloves required for prolonged or repeated contact. Gloves of nitrile rubber, PVA or Viton are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Eye Protection

Use eye protection. Wear approved, tight fitting safety glasses where splashing is probable.

Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

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.

Skin Protection

Not relevant considering the small amounts used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid.
Color	Colourless.
Odor	Odor of alcohol.
Solubility	Soluble in water.
Initial boiling point and boiling range	77.6
Vapor density (air=1)	1.82
Vapor pressure	39 mm Hg 20
Flash point	12 TCC (Tag closed cup).
Flammability Limit - Lower(%)	2.0
Flammability Limit - Upper(%)	12.7
Physical Data Comments	Information given concerns the major ingredient.
Volatility Description	Volatile
Volatile By Vol. (%)	100
Flammability	FLAMMABLE.

10. STABILITY AND REACTIVITY**Reactivity**

No specific reactivity hazards associated with this product.

Stability

Stable under normal temperature conditions.

Hazardous Polymerisation

Will not polymerise.

Conditions To Avoid

Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidizing agents. Strong alkalis. Strong mineral acids.

Materials To Avoid

Strong oxidizing substances.

Hazardous Decomposition Products

Fire creates: Vapors/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

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Other Health Effects

This substance has no evidence of carcinogenic properties.

Toxicological Information on Ingredients:

METHANOL (CAS: 67-56-1)

Toxic Dose 1 - LD 50

13000 mg/kg (oral rat)

ETHANOL (CAS: 64-17-5)

Toxic Dose 1 - LD 50

7, 060 mg/kg (oral rat)

Toxic Conc. - LC 50

20000 mg/l/4h (inh-rat)

PROPAN-2-OL (CAS: 67-63-0)

Toxic Dose 1 - LD 50

5045 mg/kg (oral rat)

Toxic Dose 2 - LD 50

3600 mg/kg (oral-mouse)

Toxic Conc. - LC 50

16, 000 ppm/1h (inh-rat)

Carcinogenicity:

IARC Carcinogenicity

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

NTP - Carcinogenicity

Reasonably anticipated human carcinogen.

OSHA - Carcinogenicity

Not listed.

12. ECOLOGICAL INFORMATION

Ecotoxicity

There are no data on the ecotoxicity of this product.

Degradability

This product mainly consists of inorganic compounds which are not biodegradable. The remaining compounds of the product are expected to be easily biodegradable.

Bioaccumulative potential

No data available on bioaccumulation.

Mobility:

The product is soluble in water.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Other adverse effects

The product contains volatile, organic compounds which have a photochemical ozone creation potential.

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Ecological Information on Ingredients:

METHANOL (CAS: 67-56-1)
LC 50, 96 Hrs, Fish mg/l
1368

ETHANOL (CAS: 64-17-5)
LC 50, 96 Hrs, Fish mg/l
>10, 000
EC 50, 48 Hrs, Daphnia, mg/l
7, 800

PROPAN-2-OL (CAS: 67-63-0)
LC 50, 96 Hrs, Fish mg/l
9, 640
EC 50, 48 Hrs, Daphnia, mg/l
5102
IC 50, 72 Hrs, Algae, mg/l
>2, 000

13. DISPOSAL CONSIDERATIONS

Waste Management

Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket. The packaging should be collected for reuse. Recover and reclaim or recycle, if practical.

Disposal Methods

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

UN No. (DOT/TDG)	UN3175
UN No. (IMDG)	ID 8000
UN No. (ICAO)	UN3175
DOT Proper Shipping Name	SOLIDS CONTAINING A FLAMMABLE LIQUID N.O.S. (ISOPROPANOL)
TDG Proper Shipping Name	SOLIDS CONTAINING A FLAMMABLE LIQUID N.O.S. (ISOPROPANOL)
ICAO Class	Consumer Commodity, Class 9, LTD QTY

Transport Labels



Air Pack Group II

Environmentally Hazardous Substance/Marine Pollutant
No.

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes
Not applicable. No information required.

15. REGULATORY INFORMATION

Regulatory Status (US)

SECTION 313: This product is a toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and reauthorization Act of 1986 and 40 CFR Part 372. TSCA: The ingredients of this product are on the TSCA Inventory. This Product is Hazardous under the OSHA Hazard Communication Standard.

Regulatory References

NFPA30 Flammable and Combustible Liquids Code. 29 CFR 1910.1010 Federal Regulations (OSHA Standard).

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US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The following ingredients are listed.

METHANOL; 5, 000 lbs (2270 Kg)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

SARA 313 Emission Reporting

The following ingredients are listed.

METHANOL 2%

CAA Accidental Release Prevention

None of the ingredients are listed.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

The following ingredients are listed.

METHANOL; Known to the State of California to cause developmental and reproductive toxicity.

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

The following ingredients are listed.

METHANOL

PROPAN-2-OL

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

None of the ingredients are listed.

Massachusetts "Right To Know" List

All ingredients are listed.

Rhode Island "Right To Know" List

All ingredients are listed.

Minnesota "Right To Know" List

All ingredients are listed.

New Jersey "Right To Know" List

All ingredients are listed.

Pennsylvania "Right To Know" List

All ingredients are listed.

International Inventories

EU - EINECS/ELINCS

The following ingredients are listed.

PROPAN-2-OL

Canada – DSL/NDSL

All ingredients are listed or exempt.

US - TSCA

All ingredients are listed or exempt.

US – TSCA 12(b) Export Notification

None of the ingredients are listed.

Australia - AICS

The following ingredients are listed.

PROPAN-2-OL

Japan – MITI

The following ingredients are listed.

PROPAN-2-OL

Korea - KECI

The following ingredients are listed.

PROPAN-2-OL

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China - IECSC

The following ingredients are listed.

PROPAN-2-OL

Phillippines – PICCS

The following ingredients are listed.

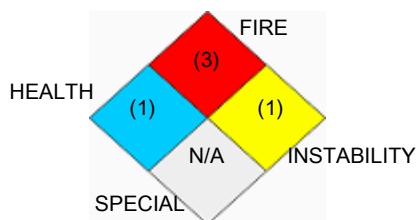
PROPAN-2-OL

16. OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

HEALTH		1
FLAMMABILITY		3
PHYSICAL		1
PERSONAL PROTECTION		B

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



Revision Comments

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

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Revision	8
Supersedes Date	08/19/2014
Sds No.	Presat_PRO
Material Safety Data Sheet Status	Approved.
Date	19 August 2014

Disclaimer

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.