



MATERIAL SAFETY DATA SHEET PRO - PROCLEAN SOLVENT, BULK

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	PRO - PROCLEAN SOLVENT, BULK		
PRODUCT NO.	MCC-PROL, MCC-PROG, MCC-PROP, MCC-PROD		
PRODUCT USE	Cleaning agent.		
SUPPLIER	MICROCARE EUROPE, BVBA Havendoklaan 19 1804 Cargovil - Vilvoorde Belgium +32 251 95 05	MANUFACTURER	MICROCARE CORPORATION 595 John Downey Drive New Britain, CT 06051 United States of America CAGE: OATV9 +1 860-827-0626 +1 860-827-8105 techsupport@microcare.com
EMERGENCY TELEPHONE	CHEMTREC (800) 424-9300		
IDENTIFICATION No.	UN1993		

2 HAZARDS 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.

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.

POTENTIAL HEALTH EFFECTS

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.

CARCINOGENICITY

This substance has no evidence of carcinogenic properties.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %
ETHANOL	200-578-6	64-17-5	30-60%
METHANOL	200-659-6	67-56-1	1-5%
PROPAN-2-OL	200-661-7	67-63-0	30-60%

4 FIRST-AID MEASURES

PRO - PROCLEAN SOLVENT, BULK

GENERAL INFORMATION

FLAMMABLE. CAUTION! First aid personnel must be aware of own risk during rescue! Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

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!

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.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

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.

UNUSUAL FIRE & EXPLOSION HAZARDS

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

SPECIFIC HAZARDS

The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures.

PROTECTIVE MEASURES IN FIRE

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

AUTO IGNITION TEMPERATURE 425 C
(°C)

FLAMMABILITY LIMIT - LOWER(%) 2.0

FLAMMABILITY LIMIT - UPPER(%) 12.7

FLASH POINT (°C) 12 C / 54 F TCC (Tag closed cup).

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Use protective gloves, goggles and suitable protective clothing. Gloves of nitrile rubber, PVA or Viton are recommended. 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.

7 HANDLING AND STORAGE

HANDLING

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, 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. Ground container and transfer equipment to eliminate static electric sparks. Keep containers tightly closed. Keep away from heat, sparks and open flame.

PRO - PROCLEAN SOLVENT, BULK

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

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 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

Wear apron or protective clothing in case of splashes.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear liquid.
COLOR	Colourless.
ODOR	Odor of alcohol.
PHYSICAL DATA COMMENTS	Information given concerns the major ingredient.
VOLATILITY DESCRIPTION	Volatile
SOLUBILITY	Soluble in water.
Flammability	FLAMMABLE.
BOILING POINT (°C)	77.6
VAPOR DENSITY (air=1)	1.82
VAPOR PRESSURE	39 mm Hg 20
VOLATILE BY VOL. (%)	100
FLASH POINT (°C)	12 C / 54 F TCC (Tag closed cup).

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

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

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Strong oxidizing substances.

PRO - PROCLEAN SOLVENT, BULK

HAZARDOUS DECOMPOSITION PRODUCTS

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

11 TOXICOLOGICAL INFORMATION

Name	METHANOL
Toxic Dose 1 - LD 50	13000 mg/kg (oral rat)
Name	ETHANOL
Toxic Dose 1 - LD 50	7,060 mg/kg (oral rat)
Toxic Conc. - LC 50	20000 mg/l/4h (inh-rat)
Name	PROPAN-2-OL
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)

12 ECOLOGICAL INFORMATION

ECOTOXICITY

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

MOBILITY

The product is soluble in water.

BIOACCUMULATION

No data available on bioaccumulation.

DEGRADABILITY

The product is easily biodegradable.

Name	METHANOL
LC 50, 96 Hrs, Fish mg/l	1368
Name	ETHANOL
LC 50, 96 Hrs, Fish mg/l	>10,000
EC 50, 48 Hrs, Daphnia, mg/l	7,800
Name	PROPAN-2-OL
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. Recover and reclaim or recycle, if practical.

DISPOSAL METHODS

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

14 TRANSPORT INFORMATION



DOT PROPER SHIPPING NAME	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)
TDG SHIPPING NAME	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)
IDENTIFICATION No.	UN1993
UN NO. SEA	UN1993
IMDG CLASS	3

PRO - PROCLEAN SOLVENT, BULK

IMDG PACK GR. II
 UN NO. AIR UN1993
 AIR CLASS 3
 AIR PACK GR. II

15 REGULATORY INFORMATION

INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
METHANOL	DSL	Yes.						
ETHANOL	DSL	Yes.						
PROPAN-2-OL	DSL	Yes.						

SARA (311/312) HAZARD CATEGORIES

Acute Fire

REGULATORY STATUS (US)

SECTION 313: This product contains 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).

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM -WHMIS

LABEL(S) FOR SUPPLY



Flammable Liquid.



Materials Causing Other Toxic Effects.

CONTROLLED PRODUCT CLASSIFICATION

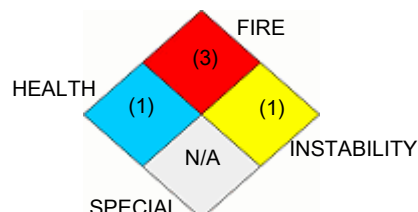
Canadian WHMIS Classification B2 D2 WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CPR SECTION (33)) This product has been classified according to the hazard criteria of the Controlled Product Regulations, and the MSDS contains all required information.

16 OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

HEALTH	1
FLAMMABILITY	3
PHYSICAL	1
PERSONAL PROTECTION	upervisor

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



PRO - PROCLEAN SOLVENT, BULK

REVISION COMMENTS

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

REVISION DATE 08/06/2009

VERSION No. 1

SAFETY DATA SHEET STATUS

Approved.

DATE 26 September, 2011

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 o