



SAFETY DATA SHEET PRO - PROCLEAN SOLVENT, BULK

According to Regulation (EU) No 453/2010
According to Regulation (EC) No 1907/2006

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name PRO - PROCLEAN SOLVENT, BULK
Product No. MCC-PROL, MCC-PROG, MCC-PROP, MCC-PROD

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Cleaning agent.

1.3. Details of the supplier of the safety data sheet

Supplier MICROCARE EUROPE, BVBA
Havendoklaan 19
1804 Cargovil - Vilvoorde
Belgium
+32 251 95 05

Manufacturer MICROCARE CORPORATION
595 John Downey Drive
New Britain, CT 06019
United States of America
CAGE: OATV9
+1 860-827-0626
+1 860-827-8105
techsupport@microcare.com

1.4. Emergency telephone number

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Flam. Liq. 2 - H225
Human health Acute Tox. 4 - H302; Acute Tox. 4 - H312; Acute Tox. 4 - H332; Eye Irrit. 2 - H319; STOT Single 2 - H371
Environment Not classified.

Classification (1999/45/EEC)

Xn; R20/21/22, R68/20/21/22. Xi; R36. F; R11.

Physical and Chemical Hazards

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

2.2. Label elements

Contains METHANOL

Label In Accordance With (EC) No. 1272/2008

PRO - PROCLEAN SOLVENT, BULK

| | | |
|---|--------------|--|
| Signal Word | Danger | |
| Hazard Statements | H225 | Highly flammable liquid and vapour. |
| | H302 | Harmful if swallowed. |
| | H312 | Harmful in contact with skin. |
| | H319 | Causes serious eye irritation. |
| | H332 | Harmful if inhaled. |
| | H371 | May cause damage to organs . |
| Precautionary Statements | P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| | P271 | Use only outdoors or in a well-ventilated area. |
| | P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| | 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 to ... |
| Supplementary Precautionary Statements | P233 | Keep container tightly closed. |
| | P240 | Ground/bond container and receiving equipment. |
| | P241 | Use explosion-proof electrical/ventilating/lighting/.../equipment. |
| | P242 | Use only non-sparking tools. |
| | P243 | Take precautionary measures against static discharge. |
| | P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| | P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| | P264 | Wash ... thoroughly after handling. |
| | P270 | Do not eat, drink or smoke when using this product. |
| | P301+312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| | P302+352 | IF ON SKIN: Wash with plenty of soap and water. |
| | P303+361+353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| | P304+340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| | P309+311 | IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. |
| | P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| | P322 | Specific measures (see ... on this label). |
| | P330 | Rinse mouth. |
| | P337 | If eye irritation persists: |
| | P363 | Wash contaminated clothing before reuse. |
| | P370+378 | In case of fire: Use ... for extinction. |
| | P403+235 | Store in a well-ventilated place. Keep cool. |
| | P405 | Store locked up. |

2.3. Other hazards**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

PRO - PROCLEAN SOLVENT, BULK

| | | |
|---|--|---------------|
| ETHANOL | | 30-60% |
| CAS-No.: 64-17-5 | EC No.: 200-578-6 | |
| Classification (EC 1272/2008) Flam. Liq. 2 - H225 | Classification (67/548/EEC) F;R11 | |
| METHANOL | | 1-5% |
| CAS-No.: 67-56-1 | EC No.: 200-659-6 | |
| Classification (EC 1272/2008) Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT Single 1 - H370 | Classification (67/548/EEC) F;R11 T;R23/24/25,R39/23/24/25 | |
| PROPAN-2-OL | | 30-60% |
| CAS-No.: 67-63-0 | EC No.: 200-661-7 | |
| Classification (EC 1272/2008) Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT Single 3 - H336 | Classification (67/548/EEC) F;R11 Xi;R36 R67 | |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

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.

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

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.

4.2. 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.

Vapours may cause drowsiness and dizziness. Headache. Irritation of nose, throat and airway.

Ingestion

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.

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Eye contact

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

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

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.

5.2. Special hazards arising from the substance or mixture

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.

Specific hazards

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

5.3. Advice for firefighters

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 vapours.

Protective equipment for fire-fighters

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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.

6.2. 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.

6.3. Methods and material for containment and cleaning up

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.

6.4. Reference to other sections

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

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe 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 vapours. Use approved respirator if air contamination is above accepted level.

7.2. Conditions for safe storage, including any incompatibilities

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.

7.3. 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

PRO - PROCLEAN SOLVENT, BULK

| Name | STD | TWA - 8 Hrs | | STEL - 15 Min | | Notes |
|-------------|-----|-------------|---------------|---------------|---------------|-------|
| | | | | | | |
| ETHANOL | WEL | 1000 ppm | 1920 mg/m3 | | | |
| METHANOL | WEL | 200 ppm(Sk) | 266 mg/m3(Sk) | 250 ppm(Sk) | 333 mg/m3(Sk) | |
| PROPAN-2-OL | WEL | 400 ppm | 999 mg/m3 | 500 ppm | 1250 mg/m3 | |

WEL = Workplace Exposure Limit.

Ingredient Comments

WEL = Workplace Exposure Limits

8.2. Exposure controls**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 vapour 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

| | |
|--|-----------------------------------|
| Appearance | Clear liquid. |
| Colour | Colourless. |
| Odour | Odour of alcohol. |
| Solubility | Soluble in water. |
| Initial boiling point and boiling range | 77.6 |
| Vapour density (air=1) | 1.82 |
| Vapour pressure | 39 mm Hg 20 |
| Odour Threshold, Lower | Not determined. |
| Odour Threshold, Upper | Not determined. |
| Flash point (°C) | 12 C / 54 F TCC (Tag closed cup). |
| Auto Ignition Temperature (°C) | 425 C |
| Flammability Limit - Lower(%) | 2.0 |
| Flammability Limit - Upper(%) | 12.7 |

Explosive properties

The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures.

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Comments Information given concerns the major ingredient.

9.2. Other information

Volatility Description Volatile
Volatile By Vol. (%) 100
UDF Phase 1 FLAMMABLE.

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions**Hazardous Polymerisation**

Will not polymerise.

10.4. Conditions to avoid

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

10.5. Incompatible materials**Materials To Avoid**

Strong oxidising substances.

10.6. Hazardous decomposition products

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

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Other Health Effects**

This substance has no evidence of carcinogenic properties.

Inhalation

May cause irritation to the respiratory system. Vapours 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.

Health Warnings

Keep out of the reach of children.

| | |
|-----------------------------|-------------------------|
| 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) |

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

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

PRO - PROCLEAN SOLVENT, BULK**12.1. Toxicity****12.2. Persistence and degradability****Degradability**

The product is easily biodegradable.

12.3. Bioaccumulative potential**Bioaccumulative potential**

No data available on bioaccumulation.

12.4. Mobility in soil**Mobility:**

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

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

| | |
|-------------------------------------|--------------------|
| 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 |

SECTION 13: DISPOSAL CONSIDERATIONS**General information**

Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket. Recover and reclaim or recycle, if practical.

13.1. Waste treatment methods

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

SECTION 14: TRANSPORT INFORMATION**14.1. UN number**

| | |
|-----------------------------|--------|
| UN No. (ADR/RID/ADN) | UN1993 |
| UN No. (IMDG) | UN1993 |
| UN No. (ICAO) | UN1993 |

14.2. UN proper shipping name

Proper Shipping Name FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)

14.3. Transport hazard class(es)

| | |
|----------------------------|---|
| ADR/RID/ADN Class | 3 |
| IMDG Class | 3 |
| ICAO Class/Division | 3 |
| Transport Labels | |

PRO - PROCLEAN SOLVENT, BULK**14.4. Packing group**

| | |
|---------------------------|----|
| ADR/RID/ADN Packing group | II |
| IMDG Packing group | II |
| ICAO Packing group | II |

14.5. Environmental hazards**14.6. Special precautions for user**

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**Approved Code Of Practice**

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

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

| | |
|---------------------------------|--------------------|
| Revision Date | 26/09/2011 |
| Revision | 4 |
| Supersedes date | 05/01/2011 |
| Safety Data Sheet Status | Approved. |
| Date | 26 September, 2011 |

Risk Phrases In Full

| | |
|--------------|---|
| R11 | Highly flammable |
| R36 | Irritating to eyes. |
| R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| R39/23/24/25 | Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. |
| R67 | Vapours may cause drowsiness and dizziness. |

PRO - PROCLEAN SOLVENT, BULK

Hazard Statements In Full

| | |
|------|-------------------------------------|
| H370 | Causes damage to organs <<Organs>>. |
| H319 | Causes serious eye irritation. |
| H225 | Highly flammable liquid and vapour. |
| H336 | May cause drowsiness or dizziness. |
| H331 | Toxic if inhaled. |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |

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.