



SAFETY DATA SHEET

Water Soluble Flux Remover Pen

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

Product identifier

Product name Water Soluble Flux Remover Pen

Product number MCC-PROPEN

Synonyms; trade names Prototype 9-214-3

Details of the supplier of the safety data sheet

Supplier MICROCARE LLC

Manufacturer MICROCARE LLC
595 John Downey Drive
New Britain, CT 06051
United States of America
CAGE: OATV9
Tel: + 1 800 638 0125, +1 860-827-0626
Fax: +1 860-893-1930
techsupport@microcare.com

Emergency telephone number

Emergency telephone CHEMTREC 1-800-424-9300 (within the U.S.)
+1 703-741-5970 (from anywhere in the world)

2. Hazard(s) identification

Classification of the substance or mixture

OSHA Regulatory Status This Product is Hazardous under the OSHA Hazard Communication Standard.

Physical hazards Flam. Liq. 2 - H225

Health hazards Eye Irrit. 2A - H319 Carc. 2 - H351 STOT SE 1 - H370 STOT SE 3 - H336

Environmental hazards Not Classified

Label elements

Hazard symbols



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H370 Causes damage to organs .
H336 May cause drowsiness or dizziness.

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Precautionary statements	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>P240 Ground/ bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P260 Do not breathe vapor/ spray.</p> <p>P261 Avoid breathing vapor/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P311 If exposed or concerned: Call a poison center or doctor.</p> <p>P308+P313 If exposed or concerned: Get medical advice/ attention.</p> <p>P312 Call a poison center/ doctor if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
Supplemental label information	Safety data sheet available on request. For use in industrial installations only.
Contains	PROPAN-2-OL, ACETONE, METHANOL, ISOBUTYL METHYL KETONE

3. Composition/information on ingredients

Mixtures

PROPAN-2-OL	30-60%
CAS number: 67-63-0	
Classification	
Flam. Liq. 2 - H225	
Eye Irrit. 2A - H319	
STOT SE 3 - H336	
ETHANOL	30-60%
CAS number: 64-17-5	
Classification	
Flam. Liq. 2 - H225	

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ACETONE	10-30%
CAS number: 67-64-1	
Classification	
Flam. Liq. 2 - H225	
Eye Irrit. 2A - H319	
STOT SE 3 - H336	
METHANOL	1-5%
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	
ISOBUTYL METHYL KETONE	<1%
CAS number: 108-10-1	
Classification	
Flam. Liq. 2 - H225	
Acute Tox. 4 - H332	
Eye Irrit. 2A - H319	
Carc. 2 - H351	
STOT SE 3 - H335	
ETHYL ACETATE	<1%
CAS number: 141-78-6	
Classification	
Flam. Liq. 2 - H225	
Eye Irrit. 2A - H319	
STOT SE 3 - H336	

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

Composition comments TSCA: The ingredients of this product are on the TSCA Inventory. The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of CFR 1900.1200

Composition

4. First-aid measures

Description of first aid measures

General information The product is flammable. CAUTION! First aid personnel must be aware of own risk during rescue! Move affected person to fresh air at once. Get medical attention if any discomfort continues.

5. Fire-fighting measures

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Special hazards arising from the substance or mixture

Specific hazards The product is flammable. Heating may generate flammable vapors.

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. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation.

7. Handling and storage

Precautions for safe handling

Usage precautions 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. 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. Ground container and transfer equipment to eliminate sparks from static electricity. Keep container tightly closed. Keep away from heat, sparks and open flame.

Specific end uses(s)

Reference to other sections. Store away from incompatible materials (see Section 10).

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

A4

ETHANOL

Short-term exposure limit (15-minute): ACGIH 1000 ppm 1880 mg/m³

A3

Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 1900 mg/m³

ACETONE

Long-term exposure limit (8-hour TWA): ACGIH 250 ppm 594 mg/m³

Short-term exposure limit (15-minute): ACGIH 500 ppm 1187 mg/m³

A4

Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 2400 mg/m³

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

ISOBUTYL METHYL KETONE

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Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 82 mg/m³

Short-term exposure limit (15-minute): ACGIH 75 ppm 307 mg/m³

A3

Long-term exposure limit (8-hour TWA): OSHA 100 ppm 410 mg/m³

ETHYL ACETATE

Long-term exposure limit (8-hour TWA): ACGIH 400 ppm 1440 mg/m³

Long-term exposure limit (8-hour TWA): OSHA 400 ppm 1400 mg/m³

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

A4 = Not Classifiable as a Human Carcinogen.

Sk = Danger of cutaneous absorption.

ETHANOL (CAS: 64-17-5)

Ingredient comments WEL = Workplace Exposure Limits

METHANOL (CAS: 67-56-1)

Biological limit values 15 mg/l

Exposure controls

Other skin and body protection Wear apron or protective clothing in case of contact.

9. Physical and chemical properties

Information on basic physical and chemical properties

Odor threshold	Not determined. Not determined.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	12°C/54°F Tag closed cup.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapor pressure	No information available.
Vapor density	No information available.
Relative density	No information available.
Bulk density	Not applicable.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.

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Explosive properties	The product is highly flammable. Vapors may form explosive mixtures with air.
Global Warming Potential (GWP)	
Refractive index	No information available.
Particle size	No information available.
Molecular weight	No information available.
Volatility	100%
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.

10. Stability and reactivity

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 6,359.3

Acute toxicity - dermal

ATE dermal (mg/kg) 19,077.9

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 190.78

ATE inhalation (dusts/mists mg/l) 31.8

Acute and chronic health hazards Keep out of the reach of children.

Toxicological information on ingredients.

PROPAN-2-OL

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 16,000.0

ATE inhalation (vapours mg/l) 16,000.0

Carcinogenicity

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

NTP carcinogenicity Not listed.

OSHA Carcinogenicity Not listed.

ACETONE

Acute toxicity - inhalation

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Acute toxicity inhalation
(LC₅₀ vapours mg/l) 50,100.0

ATE inhalation (vapours
mg/l) 50,100.0

ISOBUTYL METHYL KETONE

Acute toxicity - inhalation

ATE inhalation (vapours
mg/l) 11.0

ATE inhalation
(dusts/mists mg/l) 1.5

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

12. Ecological information

Ecotoxicity The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.

Toxicity Not considered toxic to fish.

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

Persistence and degradability

Persistence and degradability The product is readily biodegradable.

Ecological information on ingredients.

ACETONE

**Persistence and
degradability** The product is readily biodegradable.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

PROPAN-2-OL

Partition coefficient : 0.05

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ACETONE

Bio-Accumulative Potential No information available.

Partition coefficient log Pow: -0.024

Mobility in soil

Mobility The product is soluble in water.

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. Reuse or recycle products wherever possible.

14. Transport information

General As supplied, this product is consigned under the Limited Quantities provisions.

UN Number

UN No. (IMDG) 1993

UN No. (ICAO) 1993

UN proper shipping name

Proper shipping name (TDG) UN1993, FLAMMABLE LIQUID, N.O.S.(Isopropyl alcohol, Ethanol), 3, PGII, LIMITED QUANTITY

Proper shipping name (IMDG) UN1993, FLAMMABLE LIQUID, N.O.S.(Isopropyl alcohol, Ethanol), 3, PGII, LIMITED QUANTITY

Proper shipping name (ICAO) UN1993, FLAMMABLE LIQUID, N.O.S.(Isopropyl alcohol, Ethanol), 3, PGII, LIMITED QUANTITY

Proper shipping name (DOT) UN1993, FLAMMABLE LIQUID, N.O.S.(Isopropyl alcohol, Ethanol), 3, PGII, LIMITED QUANTITY

Transport hazard class(es)

IMDG Class 3

ICAO class/division 3

Packing group

IMDG packing group III

ICAO packing group III

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Not applicable.

DOT reportable quantity Not applicable.

DOT TIH Zone Not applicable.

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Not listed.

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

ACETONE

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Not listed.

SARA 313 Emission Reporting

Not listed.

CAA Accidental Release Prevention

Not listed.

SARA (311/312) Hazard Categories

Acute
Fire

OSHA Highly Hazardous Chemicals

Not listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Not listed.

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

PROPAN-2-OL

Present.

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

Not listed.

California Directors List of Hazardous Substances

ETHANOL

Present.

ACETONE

Present.

PROPAN-2-OL

Present.

Massachusetts "Right To Know" List

ETHANOL

Present.

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ACETONE

Present.

PROPAN-2-OL

Present.

Rhode Island "Right To Know" List

ETHANOL

Present.

ACETONE

Present.

PROPAN-2-OL

Present.

Minnesota "Right To Know" List

ETHANOL

Present.

ACETONE

Present.

PROPAN-2-OL

Present.

New Jersey "Right To Know" List

ETHANOL

Present.

ACETONE

Present.

PROPAN-2-OL

Present.

Pennsylvania "Right To Know" List

ETHANOL

Present.

ACETONE

Present.

PROPAN-2-OL

Present.

Inventories

Canada - DSL/NDL

Yes

US - TSCA

Yes

16. Other information

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

Revision date 11/12/2020

Water Soluble Flux Remover Pen

Revision	43
Supersedes date	10/8/2018
SDS No.	BULK - PROPEN
SDS status	Approved.
Hazard statements in full	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. H311 Toxic in contact with skin. H319 Causes serious eye irritation. H331 Toxic if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H370 Causes damage to organs .