1. PRODUCT AND COMPANY IDENTIFICATION

1.2. Product identifiers
   
   **Product name**: Pro Prep M

   **CAS-No.**: 79-20-9

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

   **Identified uses**: Laboratory chemicals, Manufacture of substances

1.4. Details of the supplier of the safety data sheet

   **Supplier**: Siplast
   35 McClellan Blvd.
   Arkadelphia, AR  71923
   USA

   **Telephone**: 800-922-8800
   **Fax**: 469-995-2205

1.5. Emergency telephone number

   **Emergency Phone #**: 800-424-9300 (ChemTrec)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

   **GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**
   Flammable liquids (Category 2), H225
   Eye irritation (Category 2A), H319
   Specific target organ toxicity - single exposure (Category 3), Central nervous system,
   H336 For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. GHS Label elements, including precautionary statements

   **Pictogram**

   ![Pictogram]

   **Signal word**: Danger

   **Hazard statement(s)**
   
   H225  Highly flammable liquid and vapor.
   H319  Causes serious eye irritation.
   H336  May cause drowsiness or dizziness.

   **Precautionary statement(s)**
   
   P210  Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
   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.
P261  Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264  Wash skin thoroughly after handling.
P271  Use only outdoors or in a well-ventilated area.
P280  Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312  IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313  If eye irritation persists: Get medical advice/ attention.
P370 + P378  In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233  Store in a well-ventilated place. Keep container tightly closed.
P403 + P235  Store in a well-ventilated place. Keep cool.
P405  Store locked up.
P501  Dispose of contents/ container to an approved waste disposal plant.

2.1. Hazards not otherwise classified (HNOC) or not covered by GHS
Repeated exposure may cause skin dryness or cracking.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Formula : C₃H₆O₂C₃H₆O₂
Molecular weight : 74.08 g/mol
CAS-No. : 79-20-9
EC-No. : 201-185-2
Index-No. : 607-021-00-X

Hazardous components

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl acetate</td>
<td>Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319, H336</td>
<td>&lt;= 100 %</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Moisture sensitive.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl acetate</td>
<td>79-20-9</td>
<td>TWA</td>
<td>200.000000 ppm</td>
<td>USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>610.000000 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td>Remarks: The value in mg/m³ is approximate.</td>
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<td></td>
<td></td>
<td></td>
</tr>
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<td></td>
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<td></td>
<td>250 ppm 760 mg/m³</td>
<td>USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000</td>
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</tr>
</tbody>
</table>

The value in mg/m³ is approximate.

### Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

**Eye/face protection**

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Splash contact**

Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 182 min
Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M)

Data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection**

Impervious clothing, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance
   Form: clear, liquid  
   Color: colorless
b) Odor
   like fruit

c) Odor Threshold
   No data available
d) pH
   No data available
e) Melting point/freezing point  
   Melting point/range: -98°C (-144 °F) - lit.
f) Initial boiling point and boiling range
   57 - 58 °C (135 - 136 °F) - lit.
g) Flash point
   -12.99 °C (8.62°F) - closed cup - DIN 51755 Part 1
h) Evaporation rate
   No data available
i) Flammability (solid, gas)
   No data available
j) Upper/lower flammability
   Upper explosion limit: 16 % (V)
   or explosive limits
   Lower explosion limit: 3 % (V)
k) Vapor pressure
   217 hPa (163 mmHg) at 20°C (68 °F)
l) Vapor density
   2.8
m) Relative density
   0.934 g/cm3 at 25°C (77°F)
n) Water solubility
   319 g/l at 20°C (68°F)
o) Partition coefficient:
   log Pow: 0.18
   n-octanol/water
p) Auto-ignition temperature
   454 C (849°F) at 1,103 hPa (760 mmHg)
q) Decomposition temperature
r) Viscosity
   No data available
s) Explosive properties
   No data available
t) Oxidizing properties
   No data available

9.2 Other safety information

Surface tension
   24 mN/m at 20°C
   (68°F) Relative vapor density
   2.8

Percent VOC = 100%

10. STABILITY AND REACTIVITY

10.1 Reactivity
   No data available

10.2 Chemical stability
   Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
   Vapors may form explosive mixture with air.
10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity
LD50 Oral - Rat - male - 6,482 mg/kg
(OECD Test Guideline 401)
LC50 Inhalation - Rabbit - male and female - 4 h - 49.2 - 98.4 mg/l
LD50 Dermal - Rabbit - > 5,000 mg/kg
No data available

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation - 4 h
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Irritating to eyes.
(OECD Test Guideline 405)

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
Ames test
S. typhimurium
Result: negative
OECD Test Guideline 474
Rat - male and female
Result: negative

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available
Specific target organ toxicity - single exposure
May cause drowsiness or dizziness. - Central nervous system

Specific target organ toxicity - repeated exposure
Aspiration hazard
No data available

Additional Information

<table>
<thead>
<tr>
<th>Repeated dose toxicity</th>
<th>Rat - male and female - Inhalation - NOAEL: 1,057 mg/m³ - OECD Test Guideline 412</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTECS: Al9100000</td>
<td></td>
</tr>
</tbody>
</table>

Narcosis: This product is metabolized into formic acid. Humans and other primates metabolize formic acid more slowly than do rodents. Formic acid can build up in the body producing toxic effects possibly leading to death; therefore, data from studies in rodents may have limited relevance for human risk assessment.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish
static test LC50 - Danio rerio (zebra fish) - 250 - 350 mg/l - 96 h
(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates
static test EC50 - Daphnia magna (Water flea) - 1,026.7 mg/l - 48 h
(OECD Test Guideline 202)

Toxicity to algae
static test EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - > 120 mg/l - 72 h
(OECD Test Guideline 201)

Toxicity to bacteria
EC50 - Pseudomonas putida - 6,000 mg/l - 16 h

12.2 Persistence and degradability

Biodegradability
aerobic - Exposure time 28 d
Result: 70 % - Readily biodegradable
(OECD Test Guideline 301D)

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available
13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment

methods Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1231 Class: 3 Packing group: II
Proper shipping name: Methyl acetate
Reportable Quantity (RQ):
Poison Inhalation Hazard: No

IMDG
UN number: 1231 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: METHYL ACETATE

IATA
UN number: 1231 Class: 3 Packing group: II
Proper shipping name: Methyl acetate

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Revision Date</th>
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</thead>
<tbody>
<tr>
<td>Methyl acetate</td>
<td>79-20-9</td>
<td>1993-04-24</td>
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Pennsylvania Right To Know Components

<table>
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New Jersey Right To Know Components

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California Prop. 65 Components

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<tbody>
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<td>79-20-9</td>
<td>1993-04-24</td>
</tr>
</tbody>
</table>
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.  Eye irritation
Flam. Liq.  Flammable liquids
H225   Highly flammable liquid and vapor.
H319   Causes serious eye irritation.
H336   May cause drowsiness or dizziness.
STOT SE Specific target organ toxicity - single exposure

HMIS Rating
Health hazard:  2
Chronic Health Hazard:
Flammability:  3
Physical Hazard  0

NFPA Rating
Health hazard:  2
Fire Hazard:  3
Reactivity Hazard:  0

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Siplast shall not be held liable for any damage resulting from handling or from contact with the above product.

Preparation Information
Todd Franks
Siplast
9/3/2016