

# SAFETY DATA SHEET

## PRO PREP M

### 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



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.

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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.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Formula	: C <sub>3</sub> H <sub>6</sub> O <sub>2</sub> C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>
Molecular weight	: 74.08 g/mol
CAS-No.	: 79-20-9
EC-No.	: 201-185-2
Index-No.	: 607-021-00-X

#### Hazardous components

Component	Classification	Concentration
<b>Methyl acetate</b>		
	Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319, H336	<= 100 %

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

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### 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.

##### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and 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.

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### 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

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## 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.

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## 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.

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## 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

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

##### Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Methyl acetate	79-20-9	TWA	200.000000 ppm 610.000000 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	The value in mg/m <sup>3</sup> is approximate.		
		TWA	200.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Headache Eye irritation Ocular nerve damage		
		STEL	250.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Headache Eye irritation Ocular nerve damage		
		TWA	200.000000 ppm 610.000000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		ST	250.000000 ppm 760.000000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Headache Eye irritation Ocular nerve damage		
		STEL	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Headache Eye irritation Ocular nerve damage		
		TWA	200 ppm 610 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		ST	250 ppm 760 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits

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Component	CAS-No.	Value	Control parameters	Basis
		TWA	200 ppm 610 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m <sup>3</sup> is approximate.		
		TWA	200 ppm 610 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	250 ppm 760 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

## 8.2 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.

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### 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 or explosive limits	Upper explosion limit: 16 %(V) 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/cm <sup>3</sup> at 25°C (77°F)
n)	Water solubility	319 g/l at 20°C (68°F)
o)	Partition coefficient: n- octanol/water	log Pow: 0.18
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%

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### 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

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### 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

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**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**

Repeated dose toxicity RTECS: AI9100000	Rat - male and female - Inhalation - NOAEL: 1,057 mg/m <sup>3</sup> - OECD Test Guideline 412
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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



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## 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

Methyl acetate	CAS-No. 79-20-9	Revision Date 1993-04-24
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### Pennsylvania Right To Know Components

Methyl acetate	CAS-No. 79-20-9	Revision Date 1993-04-24
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### New Jersey Right To Know Components

Methyl acetate	CAS-No. 79-20-9	Revision Date 1993-04-24
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### California Prop. 65 Components



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This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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## 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