

# MATERIAL SAFETY DATA SHEET

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Anaerobic Threadlocker

**Product No.:** TL81

**Manufacturer Name:**

Parker Seal  
P.O. Box 11751  
Lexington, KY 40512  
859-269-2351

**Emergency Telephone:**

Domestic North America 800-424-9300  
International, Call 703-527-3887

**Intended Use:** Anaerobic Sealant

## 2 HAZARDS IDENTIFICATION

**Emergency Overview**

**Physical State:** Liquid

**Color:** Green

**Odor:** Mild

**WARNING!**

May cause allergic skin reaction. Causes skin, eye and respiratory tract irritation.  
Combustible liquid.

**Potential Health Effects**

**Inhalation:** Causes respiratory tract irritation.

**Eye Contact:** Causes eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort.

**Skin Contact:** Causes skin irritation. May cause allergic skin reaction.

**Ingestion:** May cause discomfort if swallowed.

**Chronic Health Effects:** May cause allergic skin reaction.

**Target Organ(s):** | Respiratory system | Eye | Lung | Skin |

**Potential Physical / Chemical Effects:**

**OSHA Regulatory Status:** This product is hazardous according to OSHA 29CFR 1910.1200.

**Environment:** The environmental hazard of the product is considered to be limited.

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name          | CAS-No.    | Concentration* |
|------------------------|------------|----------------|
| †Methacrylate Ester    | 41637-38-1 | 60 - 80%       |
| †Carboxylic Acid Ester | 868-77-9   | 15 - 30%       |
| †Saccharin             | 81-07-2    | 1 - 3%         |

|                       |         |        |
|-----------------------|---------|--------|
| †Cumene hydroperoxide | 80-15-9 | 1 - 3% |
|-----------------------|---------|--------|

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

† This chemical is hazardous according to OSHA/WHMIS criteria.

#### 4 FIRST AID MEASURES

**Inhalation:** Move injured person into fresh air and keep person calm under observation. Get medical attention if discomfort persists.

**Eye Contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Skin Contact:** Remove contaminated clothes and rinse skin thoroughly with water. If skin irritation or an allergic skin reaction develops, get medical attention.

**Ingestion:** Rinse mouth thoroughly. Get medical attention if symptoms occur.

#### 5 FIRE-FIGHTING MEASURES

**Extinguishing Media:** Extinguish with foam, carbon dioxide or dry powder.

**Unsuitable Extinguishing Media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Special Fire Fighting Procedures:** Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires.

**Unusual Fire & Explosion Hazards:** None known.

**Hazardous Combustion Products:** Carbon Oxides, Nitrogen Oxides

**Protective Measures:** Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** suitable protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.

**Spill Cleanup Methods:** Flush area with water. Collect and dispose of spillage as indicated in section 13 of the MSDS.

**Environmental Precautions:** Avoid discharge into drains, water courses or onto the ground.

#### 7 HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin, and clothing. Wear approved safety goggles. Wear suitable gloves. Use only in well-ventilated areas. Observe good industrial hygiene practices.

**Storage:** Store in a cool and well-ventilated place. Keep container closed when not in use. Store away from incompatible materials.

#### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:**

| Chemical Name        | Source        | Type | Exposure Limits           | Notes |
|----------------------|---------------|------|---------------------------|-------|
| Cumene hydroperoxide | US. AIHA WEEL | TWA  | 1 ppm 6 mg/m <sup>3</sup> | Skin  |
| Methacrylate ester   | US. AIHA WEEL | TWA  | 1 mg/m <sup>3</sup>       | Skin  |

Consult Canadian Provincial Regulations and/or Mexican Regulations on exposure limits, if applicable.

**Engineering Controls:** Use explosion-proof ventilation equipment. Provide adequate ventilation. Observe good industrial hygiene practices.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

**Eye Protection:** Wear approved safety goggles.

**Hand Protection:** Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

**Skin Protection:** Wear appropriate clothing to prevent any possibility of skin contact.

**Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental Exposure Controls:** Environmental manager must be informed of all major spillages.

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| <b>9</b> | <b>PHYSICAL AND CHEMICAL PROPERTIES</b> |
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**Color:** Green

**Odor:** Mild

**Odor Threshold:** No data available.

**Physical State:** Liquid

**pH:** Not applicable

**Melting Point:** No data available.

**Freezing Point:** No data available.

**Boiling Point:** >149°C (300°F)

**Flash Point:** >90°C (194°F)

**Evaporation Rate:** No data available.

**Flammability Limit - Upper (%):** No data available.

**Flammability Limit - Lower (%):** No data available.

**Vapor Pressure:** < 5 mmHg @26°C (79°F)

**Vapor Density (Air=1):** 3 (Approximate)

**Specific Gravity:** 1.1 @ 26°C (79°F)

**Solubility in Water:** Slight

**Solubility (Other):** Not applicable.

No data available.

**Autoignition Temperature:** No data available.

**Decomposition Temperature:** No data available.

**Volatile Organic Compounds (VOC):** 10 %w

**Viscosity:** Not applicable.

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| <b>10</b> | <b>STABILITY AND REACTIVITY</b> |
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**Stability:** Stable under normal temperature conditions

**Conditions to Avoid:** Excessive heat.

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:**

|                           |                              |
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| At Elevated Temperatures: | Nitrogen Oxides, Toxic Fumes |
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**Possibility of Hazardous Reactions:** Will not occur.

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| <b>11</b> | <b>TOXICOLOGICAL INFORMATION</b> |
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**Specified Substance(s)**

**Acute Toxicity:**

| Chemical Name        | Test Results                                  |
|----------------------|---|
| Methacrylate Ester   | Oral LD50 (Rat): 5050 mg/kg                   |
| Cumene hydroperoxide | Inhalation LC50 (4 hour(s), Rat): 220 ppm (m) |
| Cumene hydroperoxide | Oral LD50 (Rat): 800 mg/kg                    |

**Listed Carcinogens:**

| Chemical Name | IARC | NTP        | OSHA       | ACGIH      |
|---------------|------|------------|------------|------------|
| Saccharin     | 3    | Not Listed | Not Listed | Not Listed |

IARC: 1 = Carcinogenic to Humans; 2A = Probably Carcinogenic to Humans; 2B = Possibly Carcinogenic to Humans; 3 = Not classifiable as to carcinogenicity to humans; 4 = Probably not carcinogenic to humans; Not listed = Not evaluated by IARC.

ACGIH: A1 = Confirmed Human Carcinogen; A2 = Suspected Human Carcinogen; A3 = Confirmed Animal Carcinogen; A4 = Not classifiable as a human carcinogen; A5 = Not suspected to be a human carcinogen; Not listed = Not evaluated by ACGIH.

**Product Information**

**Acute Toxicity:**

**Test Results**

Dermal LD50 (Rabbit): >2000 mg/kg

**Other Acute:** Causes skin, eye and respiratory tract irritation. May cause allergic skin reaction.

**Chronic Toxicity:** May cause allergic skin reaction.

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| <b>12</b> | <b>ECOLOGICAL INFORMATION</b> |
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**Ecotoxicity:** The environmental hazard of the product is considered to be limited.

**Mobility:** The product is insoluble or slightly soluble in water.

**Persistence and Degradability:** No data available.

**Bioaccumulation Potential:** No data available.

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| <b>13</b> | <b>DISPOSAL CONSIDERATIONS</b> |
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**General Information:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal Methods:** Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

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| <b>14</b> | <b>TRANSPORT INFORMATION</b> |
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**DOT** Not regulated.

**TDG** Not regulated.

**IATA** Not regulated.

**IMDG** Not regulated.

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| <b>15</b> | <b>REGULATORY INFORMATION</b> |
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**Canadian Controlled Products Regulations:** This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

**WHMIS Classification:** B3, D2B

**Mexican Dangerous Statement:** This product is dangerous according to Mexican regulations.

**Inventory Status**

This product or all components are listed or exempt from listing on the following inventory: TSCA, DSL

**US Regulations**

**CERCLA Hazardous Substance List (40 CFR 302.4):**

| Chemical Name        | RQ      |
|----------------------|---------|
| Cumene hydroperoxide | 10 lbs  |
| Saccharin            | 100 lbs |

**SARA Title III**

**Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A):** Not regulated.

**Section 311/312 (40 CFR 370):**

Acute (Immediate)     Chronic (Delayed)     Fire     Reactive     Pressure Generating

**Section 313 Toxic Release Inventory (40 CFR 372):**

| Chemical Name        | CAS-No. | Reporting threshold for other users | Reporting threshold for manufacturing and processing |
|----------------------|---------|-------------------------------------|--|
| Cumene hydroperoxide | 80-15-9 | 10000 lbs                           | 25000 lbs  |
| Saccharin            | 81-07-2 | 10000 lbs                           | 25000 lbs  |

(4) or 1% for others.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

Not regulated.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):** Not regulated.

**Drug Enforcement Act:** Not regulated.

**TSCA**

**TSCA Section 4(a) Final Test Rules & Testing Consent Orders:** Not regulated.

**TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40CFR 721, Subpt. E):** Not regulated.

**TSCA Section 5(e) PMN-Substance Consent Orders:** Not regulated.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** Not regulated.

### **State Regulations**

**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):** Not regulated.

**Massachusetts Right-To-Know List:** Cumene hydroperoxide; Saccharin

**Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)):** Not regulated.

**Minnesota Hazardous Substances List:** Methacrylate ester; Saccharin

**New Jersey Right-To-Know List:**

**Pennsylvania Right-To-Know List:** Cumene hydroperoxide; Saccharin

**Rhode Island Right-To-Know List:** Cumene hydroperoxide

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| <b>16</b> | <b>OTHER INFORMATION</b> |
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### **HAZARD RATINGS**

|             | <b>Health Hazard</b> | <b>Fire Hazard</b> | <b>Instability</b> | <b>Special Hazard</b> |
|-------------|----------------------|--------------------|--------------------|-----------------------|
| <b>NFPA</b> | 2                    | 2                  | 1                  | --                    |

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

NFPA Label colored diamond code: Blue - Health; Red - Flammability; Yellow - Instability; White - Special Hazards

|             | <b>Health Hazard</b> | <b>Flammability</b> | <b>Physical Hazard</b> | <b>Personal Protection</b> |
|-------------|----------------------|---------------------|------------------------|----------------------------|
| <b>HMIS</b> | 2*                   | 2                   | 1                      | C                          |

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe \*- Chronic Health Effect

Personal Protection codes: C - Safety Glasses, Gloves, Apron

HMIS Label colored bar code: Blue - Health; Red - Flammability; Orange - Physical Hazards;

**Issue Date:** 6-Mar-2008

**Supersedes Date:** 27-Feb-2008

**SDS No.:** TL81

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.