This Safety Data Sheet has been prepared to comply with the EC Directive, Canadian WHMIS and the OSHA Hazard Communication Standard.

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

**Product Name:** ProTEK® Primer  
**Manufacturer:** Brewer Science, Inc.  
2401 Brewer Drive  
Rolla, MO 65401  
**Information Phone Number:** (573) 364-0300  
**Fax:** (573) 368-3318  
**Email:** msds@brewerscience.com  
**Emergency Phone Number:**  
Chemtrec Domestic North America: 800-424-9300  
Chemtrec International: 703-527-3887  
**SDS Date of Preparation:** 1/19/04  
**Product Use:** Protective Primer

**SECTION 2: HAZARDS IDENTIFICATION**

Liquid with a mild odor.  

**EMERGENCY OVERVIEW:** Flammable liquid and vapor. May cause eye, skin, and respiratory system irritation. May cause headache, dizziness, nausea, and other symptoms of central nervous system depression.

**EU Preparation Classification (1999/45/EC):** Flammable R10, R67

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS# / EINECS#</th>
<th>%</th>
<th>EU Classification (67/548/EEC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methoxy-2-propanol</td>
<td>107-98-2 / 203-539-1</td>
<td>85-95</td>
<td>R10, R67</td>
</tr>
<tr>
<td>Propylene glycol monomethyl ether, PGME</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Catalyst</td>
<td>Proprietary</td>
<td>&lt;0.1</td>
<td>Xn, C R20/21/22, R34</td>
</tr>
<tr>
<td>Coupling Agent</td>
<td>Proprietary</td>
<td>&lt;1-2</td>
<td>Xi R41, R37/38</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5 / 231-791-2</td>
<td>5-15</td>
<td>No EU Classification or R phrase</td>
</tr>
</tbody>
</table>

See Section 16 for further information on EU Classification.

**SECTION 4: FIRST AID MEASURES**

**Eye:** Rinse thoroughly with water for at least 15 minutes, holding the eyelids open to be sure the material is washed out. Get immediate medical attention.

**Skin:** Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation or symptoms of exposure develop. Launder clothing before re-use.

**Inhalation:** Remove victim to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Keep the victim calm and warm. Get immediate medical attention.

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**Prepared By:** Safety & Environmental Units  
**Approved By:** Safety & Environmental Units  
**Issue/Revision Date** F.7.6.1921.H / 6/14/11
SECTION 5: FIRE AND EXPLOSION DATA

Extinguishing Media: Use water fog or spray, universal foam, carbon dioxide or dry chemical.

Special Fire Fighting Procedures: Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

Unusual Fire Hazards: Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. As with any ether, 1-methoxy-2-propanol may form highly reactive peroxides upon contact with air.

Hazardous Decomposition Products: Oxides of carbon, nitrogen and unknown materials.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill: Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Wear appropriate protective clothing to prevent eye and skin contact including impervious gloves, safety goggles and respirator if needed. Ventilate area. Cover with an inert absorbent material and collect into an appropriate container for disposal. Report spills and releases as required to appropriate authorities.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid breathing vapors, aerosols and mists. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Always wear impervious gloves, chemical safety goggles and protective clothing when handling this material. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use.

Storage: Store in a cool, dry, well-ventilated location away from incompatible materials. Keep containers closed when not in use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methoxy-2-propanol</td>
<td>100 ppm TLV-TWA, 150 ppm TLV-STEL</td>
</tr>
<tr>
<td></td>
<td>100 ppm DFG MAK</td>
</tr>
<tr>
<td></td>
<td>100 ppm UK-TWA, 150 ppm UK-STEL skin</td>
</tr>
<tr>
<td></td>
<td>100 ppm EU-TWA, 150 ppm EU-STEL skin</td>
</tr>
<tr>
<td>Catalyst</td>
<td>None Established</td>
</tr>
<tr>
<td>Coupling Agent</td>
<td>None Established</td>
</tr>
<tr>
<td>Water</td>
<td>None Established</td>
</tr>
</tbody>
</table>

Ventilation: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. Use explosion proof electrical equipment and wiring where required.

Respiratory Protection: If needed, an approved respirator with organic vapor cartridges may be used. For higher exposures, a supplied air respirator may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Impervious gloves are recommended. Based on available test data, butyl rubber or Silver Shield gloves are suggested.

Eye Protection: Chemical safety goggles recommended.

Other Protective Equipment: Impervious clothing is required to prevent skin contact and contamination of personal clothing. An eye wash facility and safety shower should be available in the work area.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Clear liquid with a sweet odor.

- pH: Not available
- Boiling Point: 114-118°C
- Vapor Pressure: 10.9 mmHg @ 25°C (1-methoxy-2-propanol)
- Vapor Density: 3.12 (1-methoxy-2-propanol)
- Flash Point: 32°C (90°F) estimated
- Specific Gravity: Not available
- Melting Point: Not applicable
- Water Solubility: Partially soluble
- Evaporation Rate: Not available
- Flammable Limits: LEL: 1.3%
  UEL: 13.8%

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable: X Unstable:

Incompatibility/Conditions to Avoid: Strong oxidizing, acids, bases, alcohols and peroxides. Keep away from heat, sparks, flames and other sources of ignition.

Hazardous Decomposition Products: Combustion will produce oxides of carbon and nitrogen and unknown materials.

Hazardous Polymerization: May Occur: Will not occur: X

SECTION 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:

- Eye: May cause moderate eye irritation. Corneal injury is unlikely.
- Skin: May cause mild irritation. 1-Methoxy-2-propanol may be absorbed through the skin causing symptoms of headache, dizziness, nausea, and drowsiness.
- Inhalation: Inhalation of vapors, mists, or aerosols may cause nose and throat irritation with the possibility of central nervous system depression. Symptoms of central nervous system depression include headache, dizziness, drowsiness, nausea, and unconsciousness.
- Ingestion: Swallowing may cause gastrointestinal irritation and central nervous system depression with symptoms similar to those described under inhalation.
- Chronic Hazards: Chronic exposure may cause kidney or liver effects based on studies with laboratory animals.
- Carcinogen Status: None of the components are listed as carcinogens by OSHA, IARC, NTP, ACGIH, or the EU Dangerous Substance Directive.

Medical Conditions Aggravated by Exposure: Pre-existing skin diseases.

Acute Toxicity Values:

1-Methoxy-2-propanol: Oral rat LD50 - 5660 mg/kg; Inhalation rat LC50 - 10,000 ppm/5 hr; Skin rabbit LD50 - 13 gm/kg
Catalyst: Oral Rat LD50 10.2 g/kg, Skin rabbit LD50 1025 mg/kg
Coupling Agent: No toxicity data is available
Water: No toxicity data available.

SECTION 12: ECOLOGICAL INFORMATION

1-Methoxy-2-propanol: LC50 Fathead minnow - 20800 mg/mL; LC50 Daphnia Magna – 23300 mg/L
Catalyst: 96 hr EC50 Oncorhynchus mykiss (Rainbow trout) 150 mg/L

SECTION 13: DISPOSAL INFORMATION

Dispose in accordance with all local, state and federal regulations.
SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: 1-Methoxy-2-propanol Solution
DOT Hazard Class: 3, PG III
UN Number: UN3092
DOT Labels Required (49CFR172.101): Flammable Liquid
Hazardous Substance (49CFR172.101): None
Reportable Quantity: N/A

IATA Shipping Name: 1-Methoxy-2-propanol Solution
IATA Hazard Class: 3, PG III
UN Number: UN3092
IATA Hazard Labels Required: Flammable Liquid

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: This product is not subject to reporting under CERLCA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA TITLE III:

Hazard Category for Section 311/312: Acute Health, Chronic Health, Fire Hazard

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

STATE REGULATIONS:

California Proposition 65: This product contains the following substances known to the State of California to cause cancer: Aniline <0.02%.

INTERNATIONAL REGULATIONS:

European Community Labeling:

| R10 | Flammable |
| R67 | Vapours may cause drowsiness and dizziness. |
| S51 | Use only in well-ventilated areas. |
| S35 | This material and its container must be disposed of in a safe way. |

SECTION 16: OTHER INFORMATION

HMIS Ratings: Health – 2 Flammability - 3 Reactivity - 0

NFPA Ratings: Health – 2 Flammability - 3 Reactivity - 0

SDS Revision History:
1/19/04: New SDS
8/17/05: Added ingredient to list.
11/28/06: Updated for new GHS format.
1/30/07: Section 14: Updated Shipping Classification

Prepared By: Safety & Environmental Units
Approved By: Safety & Environmental Units
Issue/Revision Date F.7.6.1921.H / 6/14/11
1/31/07: Revised GHS.
2/7/07: Both IATA and DOT UN changed to 3092 in Section 14.
2/23/07: Section 14, Shipping Names updated.
7/27/07: Updated to REACH format.
2/15/08: Changed ™ to ® in name. Completed REACH format. Changed MSDS to SDS, updated wording for CERCLA and carcinogen status, removed references to NIOSH.
6/14/11: Section 3 EU Preparation Classification, Section 8 Exposure Limits, Ventilation, Section 9 Physical And Chemical Properties, Section 10 Incompatibility, Section 11 Chronic Hazards, Carcinogen Status, Acute Toxicity Values, Section 12 Ecological Information, Section 15 Hazard Category for Section 311/312, European Community Labeling, Section 16 EU Classes and Risk Phrases for Reference

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):
C  Corrosive
Xi  Irritant
Xn  Harmful
R10  Flammable
R20/21/22  Harmful by inhalation, in contact with skin and if swallowed.
R34  Causes burns.
R37/38  Irritating to respiratory system and skin.
R41  Risk of serious damage to eyes.
R67  Vapours may cause drowsiness and dizziness.

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Brewer Science, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.