



## SAFETY DATA SHEET

### SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **Energy Seal™**

Other means of identification:

Recommended use of the chemical and restrictions on use:

Chemical manufacturer address and telephone number:

Manufacturer Name: Perma-Chink Systems, Inc.

Address: 1605 Prosser Road  
Knoxville, TN 37914  
USA

Website: [www.permachink.com](http://www.permachink.com)

General Phone Number: 800-548-3554

General Fax Number: 865-523-9475

Customer Service Phone Number: 865-524-7343

Emergency phone number:

Emergency Phone Number: CHEMTREC 1-800-424-9300

### SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Class: Hazardous to the aquatic environment, long-term, chronic. Category 3.

Hazard Statements: H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements: P264 - Wash hands thoroughly after handling.  
P273 - Avoid release to the environment.  
P281 - Wear personal protective equipment as required  
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.  
P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

Potential Health Effects:

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. May cause vomiting.

Chronic Health Effects: Prolonged or repeated contact may cause skin irritation.

Signs/Symptoms: Overexposure may cause headaches and dizziness.

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing Conditions: None generally recognized.

### SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
1-Propanol, 2-amino-2-methyl-	124-68-5	0.1 - 0.25 by weight	204-709-8
Acrylic polymer(s)	No Data	20 - 30 by weight	
Crystalline Silica, Quartz	14808-60-7	0.1 - 0.5 by weight	238-878-4
Diuron	330-54-1	0.1 - 0.2 by weight	206-354-4
Non-hazardous		35 - 45 by weight	
Titanium dioxide	13463-67-7	1 - 5 by weight	236-675-5
Limestone	1317-65-3	20 - 35 by weight	215-279-6

### SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

<b>Eye Contact:</b>	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue rinsing. Get medical attention, if irritation or symptoms of overexposure persists.
<b>Skin Contact:</b>	Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

### SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

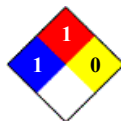
**Suitable Extinguishing Media:** Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.

Special protective equipment and precautions for fire-fighters:

**Protective Equipment:** As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent and full protective gear. )

**NFPA Ratings:**

NFPA Health: 1  
NFPA Flammability: 1  
NFPA Reactivity: 0



### SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

**Personal Precautions:** Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use proper personal protective equipment as listed in Section 8.

Environmental precautions:

**Environmental Precautions:** Avoid runoff into storm sewers, ditches, and waterways.

Methods and materials for containment and cleaning up:

**Methods for containment:** Contain spills with an inert absorbent material such as soil or sand. Prevent from spreading by covering, diking or other means. Provide ventilation.

**Methods for cleanup:** Clean up spills immediately observing precautions in the protective equipment section. Place into a suitable container for disposal. Provide ventilation. After removal, flush spill area with soap and water to remove trace residue.

## SECTION 7 : HANDLING and STORAGE

### Precautions for safe handling:

- Handling:** Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing.
- Hygiene Practices:** Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

### Conditions for safe storage, including any incompatibilities:

- Storage:** Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible substances. Keep container tightly closed when not in use.

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

#### Crystalline Silica, Quartz :

**Guideline ACGIH:** TLV-TWA: 0.025 mg/m<sup>3</sup> (R)

#### Titanium dioxide :

**Guideline ACGIH:** TLV-TWA: 10 mg/m<sup>3</sup>

### Appropriate engineering controls:

- Engineering Controls:** Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

### Individual protection measures:

- Eye/Face Protection:** Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
- Skin Protection Description:** Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
- Respiratory Protection:** A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
- Other Protective:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### **PPE Pictograms:**



## SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

### PHYSICAL AND CHEMICAL PROPERTIES:

- Physical State:** Paste.
- Physical State Appearance:** Paste.
- Color:** Various Colors.
- Odor:** Slight latex odor
- Odor Threshold:** No Data
- Boiling Point:** 212°F
- Melting Point:** No Data
- Density:** 9.8 - 10.8 (lb./gal)
- Specific Gravity:** 1.18 - 1.30
- Specific Volume:** No Data
- Solubility:** Not applicable.
- Vapor Density:** No Data
- Vapor Pressure:** No Data
- Percent Volatile:** 25-35
- Evaporation Rate:** No Data
- Evaporation Point:** <1
- pH:** 8.5 - 9.5
- Molecular Formula:** Mixture

PHYSICAL AND CHEMICAL PROPERTIES:

Molecular Weight:	Not applicable.
Viscosity:	200,000 - 250,000 cp
Coefficient of Water/Oil Distribution:	No Data
Flammability:	No Data
Flash Point:	No Data
Lower Flammable/Explosive Limit:	Not applicable.
Upper Flammable/Explosive Limit:	Not applicable.
Explosive Properties:	Not explosive.
Oxidizing Properties:	No Data
Refractive Index:	No Data
Optical Rotation:	Not applicable.
VOC Content:	< 75 g/L (Regulatory Less Water)

**SECTION 10 : STABILITY and REACTIVITY**

Chemical Stability:

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

Hazardous Polymerization: Not reported.

Conditions To Avoid:

Conditions to Avoid: Heat, flames, incompatible materials, and freezing or temperatures below 32 deg. F.

Incompatible Materials:

Incompatible Materials: Oxidizing agents. Strong acids and alkalis.

**SECTION 11 : TOXICOLOGICAL INFORMATION**

TOXICOLOGICAL INFORMATION:

1-Propanol, 2-amino-2-methyl- :

Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 2900 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Crystalline Silica, Quartz :

Chronic Effects: Normal application procedures for this product pose no hazard as to the release of crystalline silica dust, but grinding or sanding dried films of this product may yield some respirable crystalline silica.

Carcinogenicity: Crystalline silica in the form of quartz or cristobalite dust causes cancer of the lung.

Target Organ Repeated Exposures: Prolonged or repeated exposure to fine airborne crystalline silica dust, like quartz dust, is known to cause silicosis.

Titanium dioxide :

Chronic Effects: Normal application procedures for this product pose no hazard as to the release of respirable titanium dioxide dust, but grinding or sanding dried films of this product may yield some respirable titanium dioxide. Although IARC has classified titanium dioxide as possible carcinogenic to human (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products which titanium dioxide is bound to other materials". OSHA does not regulate titanium dioxide as a carcinogen. However, under 29CFR 1910.1200 the SDS must convey the fact that titanium dioxide is a potential carcinogen to rats.

Carcinogenicity: Animal evidence shows that high concentrations of pigment-grade (powdered) and ultrafine titanium dioxide dust caused respiratory tract cancer in rats exposed by inhalation.

Target Organ Repeated Exposures: Long-term exposure to titanium dioxide particles causes impairment of lung in animal studies.

## SECTION 12 : ECOLOGICAL INFORMATION

### Ecotoxicity:

**Ecotoxicity:** No ecotoxicity data was found for the product.

**Environmental Fate:** No environmental information found for this product.

## SECTION 13 : DISPOSAL CONSIDERATIONS

### Description of waste:

**Waste Disposal:** Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

## SECTION 14 : TRANSPORT INFORMATION

**DOT Shipping Name:** Not restricted as a dangerous good.

**DOT UN Number:** Not restricted as a dangerous good.

**IATA Shipping Name:** Not restricted as a dangerous good.

**IATA UN Number:** Not restricted as a dangerous good.

**Canadian Shipping Name:** Not restricted as a dangerous good.

**Canadian UN Number:** Not restricted as a dangerous good.

**IMDG UN Number :** Not restricted as a dangerous good.

**IMDG Shipping Name :** Not restricted as a dangerous good.

**ADR UN Number:** Not restricted as a dangerous good.

**ADR Shipping Name :** Not restricted as a dangerous good.

## SECTION 15 : REGULATORY INFORMATION

### Safety, health and environmental regulations specific for the product:

#### 1-Propanol, 2-amino-2-methyl- :

**EC Number:** 204-709-8

#### Crystalline Silica, Quartz :

**TSCA Inventory Status:** Listed

**California PROP 65:** Listed in California Prop65 list

**Canada DSL:** Listed

**EC Number:** 238-878-4

#### Diuron :

**California PROP 65:** Listed in California Prop65 list

**EC Number:** 206-354-4

#### Titanium dioxide :

**TSCA Inventory Status:** Listed

**Canada DSL:** Listed

**EC Number:** 236-675-5

#### Limestone :

**TSCA Inventory Status:** Listed

**EC Number:** 215-279-6

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**SECTION 16 : ADDITIONAL INFORMATION**

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**HMIS Ratings:**

HMIS Health Hazard: 1  
HMIS Fire Hazard: 1  
HMIS Reactivity: 0  
HMIS Personal Protection: X

<b>Health Hazard</b>	<b>1</b>
<b>Fire Hazard</b>	<b>1</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal Protection</b>	<b>X</b>

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SDS Author: Perma-Chink Systems

**Disclaimer:**

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