

# MATERIAL SAFETY DATA SHEET

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

Product Name: Permaweld TPO Edge Sealant  
Chemical Name: Sealant

### Company Identification

ERSystems, Inc.  
6900 Bleck Dr.  
Rockford, MN 55373 USA  
1-800-403-7747 (For product information)  
1-800-535-5053 (For emergencies)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### COMPONENT LISTING:

| <u>Chemical Name</u>  | <u>Amount</u> | <u>CAS Number</u> |
|-----------------------|---------------|-------------------|
| XYLENES               | 50.0 - 75.0 % | 1330-20-7         |
| STODDARD SOLVENT      | 5.0 - 20.0 %  | 8052-41-3         |
| TITANIUM DIOXIDE      | 1.0 - 5.0 %   | 13463-67-7        |
| BUTYL RUBBER COMPOUND | < 1.0 %       | N/A               |

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

### HAZARDS DISCLOSURE

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.



### 3. HAZARDS IDENTIFICATION

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***** EMERGENCY OVERVIEW *****
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* CAUTION
*
* Product is a flammable white or grey liquid. This
* product is harmful by inhalation, when in contact
* with the skin and if it is swallowed. Inhalation
* of vapors may cause CNS depression. This product
* is a pulmonary aspiration hazard.
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HMIS Rating - Health: 2\*  
 Flammability: 3  
 Reactivity: 0  
 Personal Protection Index: Chemical goggles, impervious gloves

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

#### POTENTIAL HEALTH EFFECTS

##### EYE:

This product may cause irritation to the eyes. Symptoms include redness, swelling, tearing and blurred vision. Overexposure to vapors, fumes, or particles from this material may cause eye damage, including vacuoles in the cornea and conjunctival irritation.

##### SKIN:

Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Prolonged or repeated contact with product or contact with processing fumes or dusts may cause an allergic skin sensitization reaction.

##### INHALATION:

Inhalation of vapors may cause irritation of the respiratory tract. Other symptoms may include signs of CNS depression involving weakness, dizziness, giddiness, loss of coordination and judgement. Excessive inhalation of xylene may produce irreversible damage to the central nervous system. Severe overexposure may cause coma and death due to respiratory failure.



(section 3 continued)

**INGESTION:**

This product may be harmful or fatal if swallowed. May cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Ingestion of large amounts may produce more serious toxicities. Aspiration of material into the lungs can cause chemical pneumonitis.

**4. FIRST AID MEASURES**

**EYE CONTACT FIRST AID:**

Flush eye with water for 15 minutes. Get medical attention.

**SKIN CONTACT FIRST AID:**

Remove contaminated clothing and shoes. Wash affected area immediately with large amounts of soap and water. Get medical attention if irritation develops or persists. Wash clothing before reuse.

**INHALATION FIRST AID:**

Remove from area of exposure. Seek immediate medical attention.

**INGESTION FIRST AID:**

If swallowed, do NOT induce vomiting. Prevent aspiration of liquid into lungs by keeping head below hips. If individual is drowsy or unconscious, place on left side with head down. Get immediate medical attention.

**NOTES TO PHYSICIAN:**

This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

TCC Flash Point: 27.2 C (81.0 F)

Autoignition Temperature: N/A

**FLAMMABLE LIMITS IN AIR**

LEL: 1.1 %

UEL: 7.0 %



(section 5 continued)

**FLAMMABLE PROPERTIES:**

Product is a flammable liquid. Highly toxic fumes and gases will be released upon combustion. Empty containers may retain product residue including flammable or explosive vapors. Do not cut, drill, grind, or weld near full, partially full, or empty product containers.

**EXTINGUISHING MEDIA:**

Water fog, carbon dioxide, foam or dry powder. Use water to cool fire-exposed containers and to protect personnel.

**FIRE FIGHTING INSTRUCTIONS:**

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid breathing smoke, fumes, and decomposition products.

**COMBUSTION PRODUCTS:**

Upon combustion the product may yield smoke, fumes, aldehydes, carbon monoxide, carbon dioxide and other low molecular weight hydrocarbons.

## 6. ACCIDENTAL RELEASE MEASURES

**SAFEGUARDS (PERSONNEL):**

Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction. Wear appropriate personal protective equipment.

**INITIAL CONTAINMENT:**

Contain by any means necessary.

**LARGE SPILLS PROCEDURE:**

Keep unnecessary and unprotected personnel from entering. Prevent spilled product from entering streams or drinking water supply. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product into clean containers for recovery. Absorb unrecoverable product. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

**SMALL SPILLS PROCEDURE:**

Absorb liquid with Vermiculite, floor absorbent, or other absorbent material.



## 7. HANDLING AND STORAGE

### HANDLING (PERSONNEL):

Do not breathe gas/fumes/vapor/spray. Use this product with adequate ventilation. Do not get this material in eyes, on skin, or on clothing. Wash thoroughly after handling.

### HANDLING (PHYSICAL ASPECTS):

Close container after each use. Keep out of reach of children. Empty containers must not be reused for any purpose. Containers may be hazardous when emptied. Never use cutting torch on empty containers. Ground all equipment when handling flammable solvent borne materials.

### STORAGE PRECAUTIONS:

Keep in a cool, well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS:

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below PEL and TLV(s).

### EYE / FACE PROTECTION REQUIREMENTS:

Use chemical splash goggles and face shield (ANSI Z87-1 or approved equivalent).

### SKIN PROTECTION REQUIREMENTS:

When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

### RESPIRATORY PROTECTION REQUIREMENTS:

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

### EXPOSURE GUIDELINES:

#### XYLENES

OSHA PEL: 100 ppm, 435 mg/m<sup>3</sup>  
OSHA TWA: 100 ppm, 435 mg/m<sup>3</sup>  
ACGIH TWA: 100 ppm, 434 mg/m<sup>3</sup>  
OSHA STEL: 150 ppm

#### STODDARD SOLVENT

OSHA PEL: 500 ppm, 2900 mg/m<sup>3</sup>  
OSHA TWA: 100 ppm, 525 mg/m<sup>3</sup>



**9. PHYSICAL AND CHEMICAL PROPERTIES**

FORM .....: Liquid  
COLOR .....: White or grey  
ODOR .....: N/A  
BOILING POINT .....: 281-398 F @ 760 mm Hg  
VAPOR DENSITY .....: Heavier than air (Air = 1)  
SOLUBILITY IN WATER .....: Insoluble  
SPECIFIC GRAVITY .....: 0.93517 (Water = 1)  
% VOLATILES .....: 82.6 %  
EVAPORATION RATE .....: <1 (Butyl Acetate=1)  
VOLATILE ORGANIC COMPOUNDS (VOC) ...: Approx. 97% by weight

**10. STABILITY AND REACTIVITY**

**STABILITY:**

Stable under normal conditions.

**POLYMERIZATION:**

Will NOT undergo hazardous polymerization.

**INCOMPATIBILITY WITH OTHER MATERIALS:**

Avoid contact with strong oxidizing agents, strong acids and bases.  
Avoid extreme heat which can result in thermal decomposition releasing toxic gases.

**DECOMPOSITION:**

Upon decomposition this product may yield smoke, fumes, aldehydes, carbon monoxide, carbon dioxide, and other low molecular weight hydrocarbons.

**CONDITIONS TO AVOID:**

Heat, sparks, static electricity, pilot lights, open flame, and smoking.

**11. TOXICOLOGICAL INFORMATION**

No information available.

**12. ECOLOGICAL INFORMATION**

No information available.



### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:**

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. Residues and spilled material are hazardous waste due to flammability. Law generally requires incineration at an EPA-permitted hazardous waste management facility.

**MISCELLANEOUS:**

Component waste numbers: RCRA waste number U239; Ignitable waste, toxic waste.

### 14. TRANSPORTATION INFORMATION

PRODUCT LABEL .....: Permaweld TPO Edge Sealant  
D.O.T. SHIPPING NAME .....: Adhesives  
TECHNICAL SHIPPING NAME ...: Flammable Liquid  
D.O.T. HAZARD CLASS .....: 3  
UN NUMBER .....: UN 1133, PG III

### 15. REGULATORY INFORMATION

**Canadian Disclosure List**

STODDARD SOLVENT (8052-41-3)

**SARA Title III - Section 313**

XYLENES (1330-20-7)

**CERCLA Hazardous Substances**

XYLENES (1330-20-7) -- RQ 1000 lb

**RCRA Hazardous Substances**

XYLENES (1330-20-7) -- RCRA Code: U239

**Title V**

XYLENES (1330-20-7)

**SC Toxic Air Pollutants List**

XYLENES (1330-20-7)



**16. OTHER INFORMATION**

PREPARED BY .....: Laura Vollenweider  
APPROVED BY .....: Laura Vollenweider  
TITLE .....: Chemist  
APPROVAL DATE .....: April 11, 2006  
SUPERCEDES DATE ...: New  
MSDS NUMBER .....: TPOPOOEDGE0000-12  
RTN NUMBER .....: 00000133 (Official Copy)

**ADDITIONAL INFORMATION:**

The data in this Material Safety Data Sheet relates only to the specific material designated herein.

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To the best of our knowledge, the information contained in this MDS is accurate. It is intended to assist the user in his evaluation of the products hazards, and safety precautions to be taken in its use. The data in this MSDS relates only to the specific material designated herein. We do not assume liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.

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**END OF MSDS**  
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