

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

Product Name: OlyBond 500 SpotShot Part 2 (Red)  
Product Number: side by side cartridges  
Chemical Name: Polyurethane System Resin  
Component  
CAS Number: Blend

### Company Identification

ER Systems- Elastomeric Roofing Systems  
6900 Bleck Drive  
Rockford, MN 55373  
1-800-403-7747 (For product information)  
1-800-535-5053 Infotrac (For emergencies)

### **SPECIAL NOTES:**

Polyurethane foam system resin component. Part B (Part 2) of a two part system.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### **COMPONENT LISTING:**

| <u>Chemical Name</u> | <u>Amount</u> | <u>CAS Number</u> |
|----------------------|---------------|-------------------|
| DIETHYLENE GLYCOL    | < 10.0 %      | 111-46-6          |
| DIPROPYLENE GLYCOL   | < 10.0 %      | 25265-71-8        |
| POLYETHER POLYOL     | < 70.0 %      | 9082-00-2         |
| POLYPROPYLENE GLYCOL | < 20.0 %      | 25322-69-4        |
| SURFACTANT           | < 1.5 %       | 68937-54-2        |

(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.

As defined under Sara 311 and 312, this product contains materials that are acute, chronic hazards.



### 3. HAZARDS IDENTIFICATION

```
***** EMERGENCY OVERVIEW *****
*
* CAUTION
*
* May be harmful if swallowed. May cause skin, eye,
* and respiratory tract irritation. May affect the
* central nervous system causing dizziness, headache
* or nausea.
*
*****
```

HMIS Rating - Health: 1  
Flammability: 1  
Reactivity: 0  
Personal Protection Index: s

#### POTENTIAL HEALTH EFFECTS

##### EYE:

Contact may cause eye irritation and injury.

##### SKIN:

May be a skin irritant. A single, prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

##### INHALATION:

Avoid breathing vapor or mist. Prolonged or excessive inhalation may cause respiratory tract irritation.

##### INGESTION:

Harmful if swallowed.

##### SIGNS AND SYMPTOMS OF EXPOSURE:

Incidental ingestion of small amounts of diethylene glycol is not likely to cause any significant health effects. Ingestion of large quantities may result in nausea and vomiting. Changes in urine output appearance and abdominal or back pain are evidence of severe poisoning. Human deaths have occurred at a average ingested amount of 1.2 g/kg.

##### CARCINOGENICITY INFORMATION:

No known cancer hazards.

##### TARGET ORGAN:

Diethylene Glycol: High concentrations may lead to central nervous system effects nausea and headaches. Ingestion of large quantities may be harmful or, in extreme cases, fatal. May also effects on liver and kidney.



(section 3 continued)

**MISCELLANEOUS:**

Routes of exposure: skin, eyes, inhalation, ingestion.

**4. FIRST AID MEASURES**

**EYE CONTACT FIRST AID:**

After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get immediate medical attention.

**SKIN CONTACT FIRST AID:**

Immediately wash skin with plenty of soap and water while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

**INHALATION FIRST AID:**

Remove to fresh air if effects occur. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**INGESTION FIRST AID:**

If swallowed get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

PMCC Flash Point: 190.6 C (375.1 F)

Autoignition Temperature: N/A

**FLAMMABLE LIMITS IN AIR**

LEL: %

UEL: %

**FLAMMABLE PROPERTIES:**

Full emergency equipment with self contained breathing apparatus and full protective clothing should be worn.

**EXTINGUISHING MEDIA:**

Water, carbon dioxide, foam or dry powder. Do not use a direct water stream.

**FIRE FIGHTING INSTRUCTIONS:**

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



(section 5 continued)

**COMBUSTION PRODUCTS:**

During fire, smoke may contain the original material in addition to unidentified toxic and /or irritating compounds.

**6. ACCIDENTAL RELEASE MEASURES**

**SAFEGUARDS (PERSONNEL):**

Isolate spill area. May be a slipping hazard.

**INITIAL CONTAINMENT:**

Contain spilled material. Absorb spills with inert material.

**LARGE SPILLS PROCEDURE:**

Absorb spill with inert material (e g, dry sand or earth), then place in a chemical waste container. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

**SMALL SPILLS PROCEDURE:**

Absorb spills with inert material. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

**7. HANDLING AND STORAGE**

**RECOMMENDED STORAGE TEMPERATURE**

Minimum: 12.8 C (55.0 F)

Maximum: 29.4 C (84.9 F)

**SHELF LIFE: (in original, sealed containers)**

18 months @ 29.4 C

**HANDLING (PERSONNEL):**

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.

**HANDLING (PHYSICAL ASPECTS):**

Provide appropriate ventilation. Close container after each use. Keep container closed to avoid contamination. Keep out of reach of children.

**STORAGE PRECAUTIONS:**

Avoid extreme temperatures. Keep container closed when not in use. Store in a cool dry place.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS:

Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

### EYE / FACE PROTECTION REQUIREMENTS:

Wear safety glasses. A respiratory protection program that meets OSHA's 29 CFR 1910-134 and ANSI Z88-2 requirements must be followed whenever workplace conditions warrant a respirator's use.

### SKIN PROTECTION REQUIREMENTS:

Selection of specific items such as gloves, boots, apron or full-body suit will depend on operation. Wash hands thoroughly after handling. Product produces slippery conditions.

### RESPIRATORY PROTECTION REQUIREMENTS:

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

### MISCELLANEOUS:

Wash hands before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use.

### EXPOSURE GUIDELINES:

#### DIETHYLENE GLYCOL

OSHA TWA: 10 mg/m<sup>3</sup>

### MISCELLANEOUS:

Exposure limit: DEG WEEL TWA 10 mg/m<sup>3</sup>.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                         |                    |
|-------------------------|--------------------|
| FORM .....              | Liquid             |
| COLOR .....             | Red                |
| ODOR .....              | Slight, sweet odor |
| BOILING POINT .....     | NA F               |
| SOLUBILITY IN WATER ... | Slight             |
| BULK DENSITY .....      | 8.5                |
| VISCOSITY .....         | 390-530 cps        |

## 10. STABILITY AND REACTIVITY

### STABILITY:

Stable under normal conditions of use. Do not heat.



(section 10 continued)

**INCOMPATIBILITY WITH OTHER MATERIALS:**

Avoid contact with strong oxidizing agents. Avoid contact with strong acids and bases.

**DECOMPOSITION:**

Decomposition will not occur if handled and stored properly. Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

**CONDITIONS TO AVOID:**

High temperatures.

**11. TOXICOLOGICAL INFORMATION**

**EYE EFFECTS:**

Irritating to eyes.

**SKIN EFFECTS:**

Irritating to skin. Diethylene Glycol dermal toxicity (LD50): rabbit > 12,000 mg/kg (low).

**ACUTE ORAL EFFECTS:**

DEG: Low toxicity LD 50 > 12,000 mg/kg rat. Estimated fatal dose for human adult is 100 ml (1/2 cup).

**ACUTE INHALATION EFFECTS:**

Inhalation of vapours and mists may cause irritation to the respiratory tract. Diethylene Glycol (LC50): 4h, rat >4.4 mg/l.

**REPRODUCTION AND BIRTH EFFECTS:**

Diethylene glycol: Affects reproductive systems in animals; considered to be secondary to other toxic effects.

**CHRONIC EFFECTS /:**

Diethylene glycol repeated dose toxicity: Shown effects on: Kidney, liver, central nervous system.

**GENETIC TOXICITY:**

No evidence.



## 12. ECOLOGICAL INFORMATION

### ENVIRONMENTAL HAZARDS:

Based largely on information for similar material, material is practically non-toxic to aquatic organisms on an acute basis.

## 13. DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL:

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

## 14. TRANSPORTATION INFORMATION

PRODUCT LABEL .....: OlyBond 500 SpotShot Part 2 (Red)  
D.O.T. SHIPPING NAME .....: N/A  
TECHNICAL SHIPPING NAME ...: N/A  
D.O.T. HAZARD CLASS .....: N/A  
UN NUMBER .....: N/A

## 15. REGULATORY INFORMATION

### REGULATORY DISCLOSURES:

SARA 311/312 DEG: Acute (immediate) health hazard. Chronic (delayed) health hazard.

Superfund Amendments and Reauthorization Act of 1986 Title III ( Emergency Planning and Community Right-to-Know Act of 1986) Section 313: To the best of our knowledge, this product does not contain chemicals at the levels which require reporting under the statute.

Supplemental State Compliance Information: Pennsylvania: Diethylene glycol CAS# 111-46-6 <10%, Dimethyl,methyl (polyethylene oxide) siloxane CAS# 68937-54-2 <0.6%, Polyethylene oxide monoallyl ether CAS# 27274-31-3 <0.3%, ployethylene glycol CAS# 25322-68-3 <0.13% New Jersey: Dimethyl,methyl (polyethylene oxide) siloxane CAS# 68937-54-2 <0.6%, Polyethylene oxide monoallyl ether CAS# 27274-31-3 <0.3%, ployethylene glycol CAS# 25322-68-3 <0.13%. California Prop 65: No ingredients listed.

Other state regulation may apply. Check individual state requirements.

### MISCELLANEOUS INFORMATION:

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).



**16. OTHER INFORMATION**

PREPARED BY .....: chemist  
APPROVED BY .....: Laura Vollenweider  
TITLE .....: Chemist  
APPROVAL DATE .....: March 7, 2011  
SUPERCEDES DATE ....: New  
RTN NUMBER .....: 00000219 (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 MSDS is accurate. It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data in this MSDS relate 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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