

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

Product Name: OlyBond Classic, Part A (Dark Brown)  
Product Number: 15 or 50 gallon drum  
Chemical Name: Polymeric MDI  
Chemical Family: POLYMETHYLENE POLYPHENYLISOCYANATE  
CAS Number: Mixture

### Company Identification

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

### **SPECIAL NOTES:**

Part A of two part polyurethane system. Polymethylene polyphenylisocyanate.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### **COMPONENT LISTING:**

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
4,4'-DIPHENYLMETHANE DIISOCYANATE	38.0 %	101-68-8
POLYMERIC MDI	< 55.0 %	9016-87-9
MDI MIXED ISOMERS	< 10.0 %	26447-40-5

(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, reactive hazards.



### 3. HAZARDS IDENTIFICATION

\*\*\*\*\* EMERGENCY OVERVIEW \*\*\*\*\*  
\*  
\* CAUTION \*  
\*  
\* Contains Diphenylmethane Diisocyanate. Inhalation \*  
\* of MDI mists or vapors may cause respiratory \*  
\* irritation, breathlessness, chest discomfort and \*  
\* reduced pulmonary function. Overexposure well \*  
\* above the PEL may result in bronchitis, bronchial \*  
\* spasms and pulmonary edema. Long-term exposure to \*  
\* isocyanates has been reported to cause lung damage, \*  
\* including reduced lung function which may be \*  
\* permanent. Acute or chronic overexposure to \*  
\* isocyanates may cause sensitization in some \*  
\* individuals, resulting in allergic respiratory \*  
\* reactions including wheezing, shortness of breath, \*  
\* and difficulty breathing. \*  
\* \*  
\*\*\*\*\*

HMIS Rating - Health: \*2  
Flammability: 1  
Reactivity: 1

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:

Contact may cause eye irritation. May result in corneal opacity (clouding of the eye surface).

##### SKIN:

Causes skin burns, irritation, and possible allergic reaction. In those who have developed skin sensitization, these symptoms can develop as a result of contact with a very small amount of the liquid material.

##### INHALATION:

Inhalation of MDI vapors may cause irritation of the mucous membranes of the nose, throat or trachea, breathlessness, chest discomfort, difficult breathing and reduced pulmonary function.



(section 3 continued)

**INGESTION:**

Harmful if swallowed. Can burn mouth, throat, and stomach.  
Gastrointestinal symptoms include nausea, vomiting and abdominal pain.

**CHRONIC EFFECTS:**

As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the PEL/TLV. These symptoms, which include chest tightness, wheezing, cough, shortness of breath, or asthmatic attack, could be immediate or delayed up to several hours after exposure. Chronic overexposure to isocyanates has also been reported to cause lung damage, including a decrease in lung function, which may be permanent. Sensitization may be either temporary or permanent. Prolonged contact can cause reddening, swelling, rash, scaling, or blistering. In those who have developed skin sensitization, these symptoms can develop as a result of contact with very small amounts of liquid material.

**REPRODUCTIVE HAZARDS:**

No birth defects or teratogenic effects were reported in a teratology study with rats exposed to 1, 4 and 12mg/m<sup>3</sup> polymeric MDI for 6 hr/day on days 6-15 of gestation. Embryotoxicity and fetotoxicity was reported at the top dose in the presence of maternal toxicity.

**CARCINOGENICITY INFORMATION:**

Results from a lifetime inhalation study in rats indicate that MDI aerosol was carcinogenic at 6 mg/m<sup>3</sup>, the highest dose tested. This is well above the recommended TLV of 5 ppb (0.05 mg/m<sup>3</sup>). Only irritation was noted at the lower concentrations of 0.2 and 1 mg/m<sup>3</sup>.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

Individuals who are sensitized to isocyanates and those with preexisting lung disease or conditions, including non-specific bronchial hyperreactivity or asthma, must avoid all exposure to isocyanates.

**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:**

Remove contaminated clothing and shoes. Wash affected area immediately with large amounts of soap and water. Get medical attention immediately.

**INHALATION FIRST AID:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.



(section 4 continued)

**INGESTION FIRST AID:**

If swallowed, immediately give 2 glasses of water. Do not induce vomiting. Contact a physician. Never give anything by mouth to an unconscious person. Get immediate medical attention.

**NOTES TO PHYSICIAN:**

There is no antidote to counteract the effects of MDI. Care should be supportive and treatment should be based on the judgment of the physician in response to the action of the patient.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

COC Flash Point: 220 C (428.0 F)  
Autoignition Temperature: N/A

**FLAMMABLE LIMITS IN AIR**

LEL: N/A  
UEL: N/A

**FLAMMABLE PROPERTIES:**

Full emergency equipment with self contained breathing apparatus and full protective clothing should be worn. At temperatures greater than 400 F material may polymerize causing pressure build up in closed containers. Explosive rupture is possible. Use cold water to cool containers exposed to fire.

**EXTINGUISHING MEDIA:**

Water, carbon dioxide, foam or dry powder.

**FIRE & EXPLOSION HAZARDS:**

Material will burn in a fire.

**FIRE FIGHTING INSTRUCTIONS:**

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

**COMBUSTION PRODUCTS:**

During a fire. smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxide, Isocyanate, Hydrogen cyanide, Carbon monoxide, Carbon dioxide.



(section 5 continued)

**MISCELLANEOUS:**

Reacts with water to form carbon dioxide gas, which may create excessive pressure in containers. Reacts exothermically with polyol and alcohols. Reacts exothermically and possibly violently with acids, amines and alkaline solutions.

**6. ACCIDENTAL RELEASE MEASURES**

**SAFEGUARDS (PERSONNEL):**

Evacuate non-emergency personnel to a safe area. Avoid breathing vapor. Ventilate spill area. Wear safety goggles. Wear appropriate personal protective equipment.

**INITIAL CONTAINMENT:**

Contain spilled material. Absorb spills with inert material. Place in closed containers but do not seal.

**LARGE SPILLS PROCEDURE:**

Absorb spill with inert material (e g, dry sand or earth), then place in a chemical waste container. Place in closed containers but do not seal. Neutralize spill with mixture of 90% water, 3-8% ammonia and 2-7% detergent. Add at a 10 to 1 ratio and let stand for 48 hrs allowing CO2 to escape.

**MISCELLANEOUS:**

Do not discharge into drains/surface waters/groundwater.

**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. Avoid prolonged or repeated contact with skin. Wash hands thoroughly after handling. Do not reuse this container.

**HANDLING (PHYSICAL ASPECTS):**

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



(section 7 continued)

**STORAGE PRECAUTIONS:**

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

**SPECIAL SENSITIVITY:**

All handling equipment should be electrically grounded.

**MISCELLANEOUS:**

Protect from moisture.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**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.

**RESPIRATORY PROTECTION REQUIREMENTS:**

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

**EXPOSURE GUIDELINES:**

No Information Available.

**MISCELLANEOUS:**

Components with workplace control parameters:

Diphenylmethane-4, 4' diisocyanate (MDI) OSHA CLV 0.02 ppm 0.2 mg/m<sup>3</sup>,  
ACGIH TWA value 0.005 ppm.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM .....: Liquid  
COLOR .....: Dark Brown  
ODOR .....: Aromatic  
BOILING POINT .....: 200 C @ 5 mm Hg  
VAPOR PRESSURE .....: 0.00001 mm Hg @ 20 C  
SOLUBILITY IN WATER .....: Reacts with water  
SPECIFIC GRAVITY .....: 1.22 (Water = 1)  
BULK DENSITY .....: 10.16 lb/USg  
MELTING/FREEZING POINT ...: 3 C  
VISCOSITY .....: 150-350 cps

## 10. STABILITY AND REACTIVITY

### STABILITY:

Stable.

### POLYMERIZATION:

May occur.

### INCOMPATIBILITY WITH OTHER MATERIALS:

Reacts with water, with formation of carbon dioxide. Risk of bursting.  
Reacts with alcohols, acids, alkalies, amines. Risk of exothermic reaction. Risk of violent reaction. Contact with certain rubbers and plastics can cause brittleness of the substance with subsequent loss in strength.

### DECOMPOSITION:

Hazardous decomposition products: carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors.

### CONDITIONS TO AVOID:

Avoid moisture.

## 11. TOXICOLOGICAL INFORMATION

### SKIN EFFECTS:

Typical for this family of materials. LD50, Rabbit > 2000 mg/kg.

### ACUTE ORAL EFFECTS:

LD50/rat: > 10,000 mg/kg. Practically nontoxic.

### ACUTE INHALATION EFFECTS:

LD50/rat: > 2.240 mg/l / 1h  
Moderately toxic.



## 12. ECOLOGICAL INFORMATION

### ENVIRONMENTAL FATE:

In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.

### MISCELLANEOUS:

Acute and prolonged toxicity to fish: Static zebra fish/LC50 (24 hrs.) > 500 mg/l Practically nontoxic.

Acute and prolonged toxicity to aquatic invertebrates: Daphnia magna EC50 (24 hrs.): > 500 mg/l Practically nontoxic.

## 13. DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL:

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

### CONTAINER DISPOSAL:

Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer, or an approved landfill. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

### MISCELLANEOUS:

Waste disposal of substance: Incinerate or dispose if in a licensed facility. Do not discharge substance into sewer system.

## 14. TRANSPORTATION INFORMATION

PRODUCT LABEL ...: OlyBond Classic, Part A (Dark Brown)

## 15. REGULATORY INFORMATION

### Canadian Disclosure List

4,4'-DIPHENYLMETHANE DIISOCYANATE (101-68-8)

### SARA Title III - Section 313

4,4'-DIPHENYLMETHANE DIISOCYANATE (101-68-8)

Polymeric MDI (9016-87-9)

### CERCLA Hazardous Substances

4,4'-DIPHENYLMETHANE DIISOCYANATE (101-68-8) -- RQ 5000 lbs.



(section 15 continued)

**Title V**

4,4'-DIPHENYLMETHANE DIISOCYANATE (101-68-8)

**SC Toxic Air Pollutants List**

4,4'-DIPHENYLMETHANE DIISOCYANATE (101-68-8)

**MISCELLANEOUS INFORMATION:**

OSHA Hazard Communication Standard: This product is a 'Hazardous Chemical' as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA hazard categories (EPCRA 311/312): Acute, Chronic.

SARA Section 313 (Emergency Planning and Community Right-to-Know Act of 1986): This product contains the following substances which are subject to the reporting requirements of Section 313. Chemical name: Diisocyanate Compound Category.

CERCLA: This product contains the following substances which are subject to CERCLA Section 103 reporting requirements and which are listed in 40 CFR 302.4: 4-4'-methylenediphenyl diisocyanate CAS# 101-68-8 amount >55-< 65% CERCLA RQ 5000 LBS.

State Right-to-Know: MA,NJ,PA CAS# 101-68-8 Diphenylmethane-4-4'-diisocyanate (MDI). Other state regulations may apply. Check individual state requirements.

California Proposition 65 this product contains no chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm.

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 8, 2011  
SUPERCEDES DATE ....: New  
MSDS NUMBER .....: foam00  
RTN NUMBER .....: 00000210 (Official Copy)

**ADDITIONAL INFORMATION:**

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



\*\*\*\*\*  
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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# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

Product Name: OlyBond Classic Part B (Red)  
Product Number: 15 or 50 gallon Drum  
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	< 15.0 %	25265-71-8
2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUT	< 10.0 %	6846-50-0
POLYETHER POLYOL	< 70.0 %	9082-00-2
PROPRIETARY BLEND OF MATERILAS	< 3.0 %	

(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 vapors or mists. 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 and 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 any air contaminate 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 10mg/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
SPECIFIC GRAVITY .....	1.020 (Water = 1)
BULK DENSITY .....	8.5 lbs./gallon
VISCOSITY .....	400-600 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. 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 Classic Part B (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:**

OSHA Hazard Communication Standard This product is a 'Hazardous Chemical' as defined by OSHA 29 CFR 1910.1200. SARA Hazardous Categories Section 311/312 (EPCRA): Diethylene Glycol: 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: Massachusetts CAS# 34590-94-8 .008-.04% by weight Dipropylene glycol monomethyl ether.

New Jersey: CAS# 69430-40-6 0.08-0.25% by weight Silicone glycol, CAS# 79313-21-6 0.025-0.18% by weight Dipropylene glycol monomethyl monallyl ether, CAS# 63148-62-9 0.008-0.04% by weight Polydimethylsiloxane, CAS# 34590-94-8 0.008-0.04% by weight Dipropylene glycol monomethyl ether.

Pennsylvania: CAS# 69430-40-6 0.08-0.25% by weight Silicone glycol, CAS# 79313-21-6 0.025-0.18% by weight Dipropylene glycol monomethyl monallyl ether, CAS# 63148-62-9 0.008-0.04% by weight Polydimethylsiloxane, CAS# 34590-94-8 0.008-0.04% by weight Dipropylene glycol monomethyl ether.

Other state regulations may apply. Check individual state requirements.

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) Section 103: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.



(section 15 continued)

California Proposition 65 (Safe Drinking and Toxic Enforcement Act of 1986) To the best of our knowledge this product contains no listed substances known to the state of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

**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 8, 2011  
SUPERCEDES DATE ...: New  
RTN NUMBER .....: 00000209 (Official Copy)

**ADDITIONAL INFORMATION:**

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

\*\*\*\*\*  
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.

\*\*\*\*\*  
**END OF MSDS**  
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