

**1. PRODUCT AND COMPANY IDENTIFICATION**

**1.1 Product Identifier** OlyBond500 SpotShot Cartridge, Part 2

**1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against**

One component of a two-component system for production of polyurethane

**1.3 Manufacturer and Supplier of the Safety Data Sheet** OMG, Inc.  
 153 Bowles Road  
 Agawam, Massachusetts 01001, USA  
 Phone: (01) 413-789-0252  
 Fax: (01) 413-786-1453  
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 Contact: EHSDept@olyfast.com

**1.4 Emergency Telephone Number** Chemtrec: (01) 703-741-5970 (24-hour)

**2. HAZARDS IDENTIFICATION**

**2.1 Classifications per Regulation (EC) 2015/830:** Not classified as hazardous.

**2.2 Label Elements** None required.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Ingredient</u>	<u>CAS Number</u>	<u>EC No.</u>	<u>Percentage</u>	<u>Classifications</u>
Diethylene Glycol	111-46-6	203-872-2	<10	Acute Toxicity, Oral, Category 4 (H302)
Dipropylene Glycol	25265-71-8	246-770-3	<10	Not classified
Non-hazardous Ingredients	N/A	N/A	≥80	Not classified

**4. FIRST AID MEASURES**

**4.1 Description of First Aid Measures**

**General information:** Eye contact with this product may cause mild irritation. There are no known serious health effects from inhalation or skin contact. See Section #7 for recommendations on handling and work practices, and Section #8 for recommendations on personal protective equipment.

**This product is formulated to be mixed with another component (OlyBond500 SpotShot, Part 1) that, if handled improperly, may cause potentially serious health effects such as respiratory irritation, asthma-like symptoms, and/or respiratory sensitization. Do not handle or mix the two components together until you have read and understood that information in the Safety Data Sheets for both components.**

**Following eye contact:** Hold eyes open and flush with lukewarm water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Following skin contact:	Remove contaminated clothing. Wash affected areas with soap and water. If irritation persists, seek medical attention. Launder or dry-clean clothing before reuse.
Following ingestion:	Do not induce vomiting unless directed to by a doctor or physician. If the subject is conscious, rinse mouth with water. Seek medical assistance for large ingestions. Do not attempt to give anything by mouth to an unconscious or convulsing person.
Following inhalation:	If symptoms of respiratory irritation or breathing difficulty are observed, remove subject to fresh air and seek medical attention.

**4.2 Most Important Symptoms and Effects (Acute and Delayed)**

May cause mild eye or skin irritation. May cause mild respiratory irritation.

**4.3 Indication of any Immediate Medical Attention and Special Treatment Needed**

None applicable.

**5. FIREFIGHTING MEASURES**

<b>5.1 Extinguishing Media</b>	Suitable Extinguishing Media: water spray, carbon dioxide, dry chemical or chemical foam.  Unsuitable Extinguishing Media: water jet.
<b>5.2 Special Hazards Arising from the Mixture</b>	This product may ignite if exposed to sources of ignition at temperatures above its flash point. Potential thermal decomposition products include carbon monoxide, smoke, and irritant decomposition byproducts.
<b>5.3 Advice for Firefighters</b>	If fighting a fire in which this product is present, wear a self-contained breathing apparatus with full-facepiece operated in pressure-demand or other positive pressure mode.

**6. ACCIDENTAL RELEASE MEASURES**

<b>6.1 Personal Precautions, Protective Equipment, and Emergency Procedures</b>	Avoid contact with skin, eyes, and mucous membranes. Wear appropriate personal protective equipment (see Section #8) during cleanup and decontamination. Restrict unauthorized personnel from spill area during cleanup and disposal operations.
<b>6.2 Environmental Precautions</b>	Prevent spills from entering sewers or contaminating soil.
<b>6.3 Methods and Material for Containment and Cleaning Up</b>	Absorb spilled material with a sorbent such as sand, vermiculite, or calcium silicate hydrate. When absorbed, transfer to an impervious container.
<b>6.4 Reference to Other Sections</b>	Refer to Section 8 for personal protective equipment and Section #13 for disposal information.

**7. HANDLING AND STORAGE**

<b>7.1 Precautions for Safe Handling:</b>	Containers should be kept tightly closed to prevent contact with moisture and other chemicals. Do not reuse empty containers for any purpose. When handling the product, avoid contact with eyes, skin, and clothing, using protective equipment as needed. Do not use this product around children, and secure it away from children.
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**7.2 Conditions for Safe Storage:**

Store containers tightly sealed in a dry, well-ventilated, area away from incompatible materials (see Section #10). Recommended temperature range for storage is 12.8-29.4 °C.

**7.3 Specific End Uses:**

One component of a two-component system for production of polyurethane.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**8.1 Control Parameters:**

<u>Ingredient</u>	<u>Occupational Exposure Limits (mg/m<sup>3</sup>)</u>			
	<u>Country</u>	<u>8 hr. TWA</u>	<u>15 min. STEL</u>	<u>Ceiling</u>
Diethylene Glycol	Germany	44	176	None
	Italy	None	None	None
	Netherlands	70	None	None
	Spain	None	None	None
	United Kingdom	101	None	None
Dipropylene Glycol	Germany	100	200	None
	Italy	None	None	None
	Netherlands	None	None	None
	Spain	None	None	None
	United Kingdom	None	None	None
Non-hazardous Ingredients	Germany	None	None	None
	Italy	None	None	None
	Netherlands	None	None	None
	Spain	None	None	None
	United Kingdom	None	None	None

**8.2 Exposure Controls**

**8.2.1 Engineering Controls:**

When using this product in conjunction with OlyBond500 SpotShot Part 1, and where natural ventilation is restricted or inadequate to maintain concentrations of all components within their *Occupational Exposure Limits (OELs)*, use mechanical ventilation (dilution or local exhaust).

**8.2.2 Individual Protection Measures:**

**Eye Protection:** Wear eye/face protection when using this product. Plastic-frame spectacles with side shields, chemical goggles, or a face shield are recommended. Refer to EN 166.

**Skin Protection:** Wear protective gloves and clothing to prevent skin irritation or injury from contact with the product. Glove materials known to be effective include polyvinyl chloride (#0,5 mm), butyl rubber (#0,5 mm), nitrile rubber (#0,35 mm) and polychloroprene (#0,5 mm). Reported breakthrough times for these materials are ≥480 minutes. Refer to EN 374 (Gloves) / EN 465, 466/A1, 467 (Protective clothing)

**Respiratory Protection:** In case of inadequate natural and/or mechanical ventilation wear proper respiratory protection. If an exposure level to a component exceeds an applicable standard, use a respirator of a class and configuration effective for protection from the component(s) generated and

having approvals from applicable EU or national authority. Refer to EN 149, EN136, EN 405.

- 8.2.3 Environmental Exposure Controls:** Clean up spilled product in accordance with Section 6.3. Do not discharge waste product into sanitary or storm sewers or allow it to contaminate soil. Empty containers should be decontaminated prior to disposal. Consult applicable EU, National, and local regulations for proper disposal.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: red viscous liquid	Lower/Upper Explosive Limits: no information available
Odor: mildly sweet	Vapor pressure: approx. 0,008 hPa @ 25°C.
Odor threshold: no information available	Vapor density: no information available
pH: no information available	Evaporation Rate: <0,01 (n-butyl acetate = 1)
Melting point: no information available	VOCs (per USEPA Method 24): 11,00 grams/liter
Freezing point: no information available	Relative density (H <sub>2</sub> O): approx. 1,02 @ 20°C.
Boiling point: >227°C.	Solubility (H <sub>2</sub> O): partial
Boiling range: no information available	Octanol-water partition coefficient: no information available
Flash Point: approx. 191°C.	Decomposition temperature: no information available
Autoignition Point: >332°C.	Explosive properties: not explosive
Viscosity: 390-530 cps	Oxidizing properties: not oxidizing

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity:</b>	Polymerizes with isocyanate-containing chemicals.
<b>10.2 Chemical Stability:</b>	Under storage at normal temperatures, product is stable.
<b>10.3 Possibility of Hazardous Reactions:</b>	None reasonably foreseeable.
<b>10.4 Conditions to Avoid;</b>	None reasonably foreseeable.
<b>10.5 Incompatible Materials:</b>	Oxidizing agents
<b>10.6 Potential Decomposition Byproducts:</b>	Carbon monoxide, carbon dioxide, smoke, and irritant decomposition byproducts

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects of Ingredients

#### 11.1.1 Diethylene Glycol

Acute toxicity, oral:	LD <sub>50</sub> = 14850 mg/kg (rat) Acutely toxic to humans by ingestion. Acute Toxicity Category 4 - Oral (EU Harmonized Classification).
Acute toxicity, dermal:	LD <sub>50</sub> = 11890 mg/kg (hamster) Based on available data, the classification criteria are not met.
Acute toxicity, inhalation:	Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	Study parameters: Draize Test; Species: rabbit (males); Form: 0,5 ml.; Application: 0-100% in H <sub>2</sub> O, topically for 23 hr.; Observation period: 42 dy. Results: not irritating Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Study parameters: Ocular Tolerance Test; Species: albino rabbits, male; Form: 10%-100% in water; Observation Period: 7 days. Results: Ocular Indices all <15, no evidence of corneal opacity. Based on available data, the classification criteria are not met.

Skin sensitization:	Study parameters: Guinea Pig Maximization Test; Gender: female; Form: 50% aqueous solution; Application: intradermal injection and topical application; Observation period: 24-48 hours. Results: No evidence of skin reactions or skin sensitization. Based on available data, the classification criteria are not met.
Respiratory sensitization:	Based on available data, the classification criteria are not met
Carcinogenicity:	Study parameters: Feeding study; Species: rats (m/f); Dose: 1160-2630 mg/kg/day; Observation period: 108 weeks. Results: No differences between test and control groups of either gender. Based on available data, the classification criteria are not met
Germ cell mutagenicity:	Study parameters: Ames Test; Species: <i>Salmonella typhimurium</i> ; Dose: 0-5000 mcg/plate; Test period: 72 hrs. Results: No differences between controls and subjects at any dosage. Based on available data, the classification criteria are not met.
Reproductive toxicity:	Study parameters: Two-generation feeding study; Species: albino rats; Form: gavage; Dose: 2200 mg/kg/day, 8 weeks before mating until birth (5 females) and weaning (5 females); Duration: 12 weeks. Results: No differences in outcomes between subjects and controls. Based on available data, the classification criteria are not met.
STOT, single exposure:	Based on available data, the classification criteria are not met.
STOT, repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration toxicity:	Based on available data, the classification criteria are not met.

### 11.1.2 Dipropylene Glycol

Acute toxicity, oral:	LD <sub>50</sub> = >5000 mg/kg (rat) Based on available data, the classification criteria are not met.
Acute toxicity, dermal:	LD <sub>50</sub> >5010 mg/kg (rabbit) Based on available data, the classification criteria are not met.
Acute toxicity, inhalation:	Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	Study parameters: EPA OPP 81-5; Species: rabbit (m/f); Form: 0,5 ml.; Application: topically for 4 hr.; Observation period: 24, 48, and 72 hours. Results: one animal with slight reversible erythema, no effects on others. Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Study parameters: EPA OPP 81-4; Species: rabbit (m/f); Form: 0,1 ml.; Application: topically; Observation period: 1, 24, 48, and 72 hours. Results: Very slight irritation at 1 hr., reverted to normal by 72 hours. Based on available data, the classification criteria are not met.
Skin sensitization:	Study parameters: EPA OPP 81-6; Species: guinea pig (m/f); Form: 0,5 ml.; Application: topically for 6 hr., three times over 2 weeks; Observation period: 24, 48, and 72 hours. Results: No evidence of skin reactions or skin sensitization. Based on available data, the classification criteria are not met.
Respiratory sensitization:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Study parameters: Feeding study; Species: mice (m/f); Dose: 575-2630 mg/kg/day; Duration: 105 weeks. Results: No differences between test and control groups of either gender. Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Study parameters: Micronucleus Assay; Species: male mice; Dose: 0-2000 mg/kg daily for two days. Results: No differences between controls and subjects at any dosage. Based on available data, the classification criteria are not met.

Reproductive toxicity:	A reproductive study of propylene glycol (analogous chemical) showed no differences in outcomes between subjects and controls. Based on available data, the classification criteria are not met.
STOT, single exposure:	Based on available data, the classification criteria are not met.
STOT, repeated exposure:	Study parameters same as described for <i>Carcinogenicity</i> . Results: No differences between test and control groups of either gender. Based on available data, the classification criteria are not met.
Aspiration toxicity:	Based on available data, the classification criteria are not met.

## 11.2 Information on Toxicological Effects of the Product

Acute Toxicity Estimates (ATEs):	LD <sub>50</sub> (oral): >10000 mg/kg; LD <sub>50</sub> (dermal): >10000 mg/kg; LC <sub>50</sub> (inhalation): no data available
Interactive effects of ingredients:	No data available

## 12. ECOLOGICAL INFORMATION

### 12.1 Information on Ecological Effects of Ingredients

#### 12.1.1 Toxicity

Diethylene Glycol	Acute Aquatic Toxicity to Fish: LC <sub>50</sub> = 72500 mg/l. for 96 h. (fathead minnow) Acute Aquatic Toxicity to Crustacea: EC <sub>50</sub> >10000 mg/l. for 24 h. (daphnia) Acute Aquatic Toxicity to Plants: EC = 2700 mg/l. for 8 d. (algae) Acute Aquatic Toxicity to Microorganisms: No data available Chronic Aquatic Toxicity to Fish: No data available Chronic Aquatic Toxicity to Crustacea: No data available Chronic Aquatic Toxicity to Plants: No data available Chronic Aquatic Toxicity to Microorganisms: No data available Toxicity to Terrestrial Organisms: NOEC = 10974 mg/kg. for 63 d. (worms) Toxicity to Terrestrial Plants: No data available
Dipropylene Glycol	Acute Aquatic Toxicity to Fish: LC <sub>50</sub> = 15167 mg/l. for 96 h. (freshwater fish) Acute Aquatic Toxicity to Crustacea: EC <sub>50</sub> >100 mg/l. for 48 h. (daphnia) Acute Aquatic Toxicity to Plants: EC <sub>50</sub> >100 mg/l. for 72 h. (algae) Acute Aquatic Toxicity to Microorganisms: EC <sub>10</sub> >1000 mg/l. for 18 h. Chronic Aquatic Toxicity to Fish: No data available Chronic Aquatic Toxicity to Crustacea: No data available Chronic Aquatic Toxicity to Plants: No data available Chronic Aquatic Toxicity to Microorganisms: No data available Toxicity to Terrestrial Organisms: No data available Toxicity to Terrestrial Plants: No data available

#### 12.1.2 Persistence and Degradability

Diethylene Glycol	Biodegradability: 90-100% biodegradable in 28 days. Photodegradation: No data available
Dipropylene Glycol	Biodegradability: 84% biodegradable in 28 days. Photodegradation: No data available.

#### 12.1.3 Bioaccumulative Potential

Diethylene Glycol	Octanol-water partition coefficient: log P <sub>ow</sub> = -1.999 Bioaccumulation study parameters: Species: <i>Leuciscus idus melanotus</i> ; Concentration = 0,05 mg/l.; Duration: 3 d.; Bioconcentration factor: 100
Dipropylene Glycol	Octanol-water partition coefficient: log P <sub>ow</sub> = -0.46 Bioaccumulation study parameters: Species: <i>Cyprinus carpio</i> ;

Concentration = 3,0 mg/l.; Duration: 42 d.; Bioconcentration factor: 0,3-4,6

#### 12.1.4 Mobility in Soil

No data is available for any ingredient of this product with respect to mobility in soil.

#### 12.2 Results of PBT and vPvB Assessment

This product does not meet the criteria for classification as PBT or vPvB.

#### 12.3 Other Adverse Effects

This product neither contains nor is manufactured with any chemicals known to deplete the ozone layer.

### 13. DISPOSAL CONSIDERATIONS

**13.1 Waste Treatment Methods:** Dispose of contents/container in accordance with applicable regulations. Do not reuse containers of waste product.

**13.2 Sewage Disposal:** Disposal of product in sewage is discouraged, and may be in violation of relevant national or regional regulations.

**13.3 Personal Protective Equipment:** Avoid contact with eyes, skin, and clothing, using protective equipment as needed. Recommendations for personal protective equipment are listed in Section 8.2.2.

### 14. TRANSPORTATION INFORMATION

	<u>ADR/RID</u>	<u>ADN</u>	<u>ICAO</u>	<u>IMDG</u>
<b>14.1 UN Number:</b>	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2 UN Proper Shipping Name:</b>	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3 Transport Hazard Class:</b>	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4 Packing Group:</b>	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5 Environmental Hazards:</b>	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.6 Special Precautions for User:</b>	Keep away from incompatible materials (see Section 10).			
<b>14.7 Acronyms for Regulatory Instruments</b>	ADR: International Carriage of Dangerous Goods by Road RID: International Carriage of Dangerous Goods by Rail ADN: International Carriage of Dangerous Goods by Inland Waterway ICAO: Instructions for the Safe Transport of Dangerous Goods by Air IMDG: International Maritime Dangerous Goods Code			

### 15. REGULATORY INFORMATION

#### 15.1 Safety, Health, and Environmental Regulations Specific for the Product

**15.1.1 EU Regulations:** EU Directive 96/82 ED (Seveso II Directive, 2003): not applicable

**15.1.2 Authorizations:** None applicable.

**15.1.3 Restrictions:** None applicable.

**15.1.4 Federal Republic of Germany Regulations:**

<u>Ingredient</u>	<u>Substance ID</u>	<u>Water Hazard Class</u>	<u>Technical Instructions on Air Quality Control (TA Luft) and Exhaust Gas Limitations</u>
Diethylene Glycol	79	WGK 1 (low hazard)	Organic Substance, Class 1 0,5 kg/hr (mass flow) 50 mg/m <sup>3</sup> (mass conc.)
Dipropylene Glycol	3419	WGK 1 (low hazard)	Organic Substance, Class 1 0,5 kg/hr (mass flow) 50 mg/m <sup>3</sup> (mass conc.)

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this product by the manufacturer/supplier.

**16. OTHER INFORMATION**
**16.1 Relevant Hazard Statements**

<u>Code</u>	<u>Hazard Statement</u>
H302	Harmful if swallowed.

**16.2 Publication/Revision Information**

Publication date: 03 April 2020

Revision summary: General revision for content. Classification change. Changes to all Sections.

Date of prior SDS: 01 December 2016

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