

# SAFETY DATA SHEET



## 1. Identification

**Covestro LLC**  
**formerly Bayer MaterialScience LLC**  
**1 Covestro Circle**  
**Pittsburgh, PA 15205**  
**USA**

### TRANSPORTATION EMERGENCY

CALL CHEMTREC: (800) 424-9300  
INTERNATIONAL: (703) 527-3887

### NON-TRANSPORTATION

Emergency Phone: Call Chemtrec  
Information Phone: (844) 646-0545

**Product Name:** BAYSYSTEMS 486STAR 4# BD  
**Material Number:** 81522325  
**Chemical Family:** Polyol System  
**Use:** Polyol components for the production of polyurethanes.

## 2. Hazards Identification

### GHS Classification

Eye irritation: Category 2A

### GHS Label Elements

Hazard pictograms:



Signal word: Warning

Hazard statements: Causes serious eye irritation.

Precautionary statements:

### Prevention:

Wash skin and face thoroughly after handling.  
Wear eye and face protection.

### Response:

IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical attention.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity:  
7 %

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### 3. Composition/Information on Ingredients

#### Hazardous Components

<u>Weight Percent</u>	<u>Components</u>	<u>CAS-No.</u>	<u>Classification</u>
20 - 30%	Polyether Polyol	25214-63-5	Eye irritation Category 2A.

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

### 4. First Aid Measures

#### Most Important Symptom(s)/Effect(s)

**Acute:** Causes serious eye irritation with symptoms of reddening, tearing, swelling, and burning.

#### Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Get medical attention if irritation develops.

#### Skin Contact

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops. Wash clothing and shoes before reuse.

#### Inhalation

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

#### Ingestion

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

### 5. Firefighting Measures

**Suitable Extinguishing Media:** All extinguishing media are suitable.

**Unsuitable Extinguishing Media** No Data Available

#### Fire Fighting Procedure

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

#### Hazardous Decomposition Products

By Fire and Thermal Decomposition: Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke., Other undetermined compounds

#### Unusual Fire/Explosion Hazards

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

### 6. Accidental Release Measures

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### Spill and Leak Procedures

Cleanup personnel must use appropriate personal protective equipment. Dike or dam spilled material and control further spillage, if possible. Prevent from entering open drains and waterways. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal.

## 7. Handling and Storage

### Handling/Storage Precautions

Avoid breathing dust, vapor, or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use.

### Storage Period:

6 Months

### Storage Temperature

**Maximum:** 50 °C (122 °F)

### Storage Conditions

Store separate from food products.

Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### Substances to Avoid

Oxidizing agents, Reducing agents, Isocyanates

## 8. Exposure Controls/Personal Protection

Country specific exposure limits have not been established or are not applicable

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

### Industrial Hygiene/Ventilation Measures

Use local and general exhaust ventilation to control levels of exposure. Thermal processing operations should be ventilated to control gases and fumes given off during processing.

### Respiratory Protection

In case of insufficient ventilation, wear suitable respiratory equipment., NIOSH approved, air-purifying respirator with organic vapor cartridges and P-95 filters., At higher concentrations or under uncertain conditions a respirator with independent air supply must be used.

### Hand Protection

Permeation resistant gloves., Butyl rubber gloves., Nitrile rubber gloves.

### Eye Protection

Chemical safety goggles or safety glasses with side-shields.

### Skin Protection

Wear as appropriate:, Impervious protective clothing.

### Additional Protective Measures

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

## 9. Physical and Chemical Properties

<b>State of Matter:</b>	liquid
<b>Color:</b>	Amber
<b>Odor:</b>	Mild, Characteristic, ether-like
<b>Odor Threshold:</b>	No Data Available
<b>pH:</b>	No Data Available
<b>Freezing Point:</b>	No Data Available
<b>Boiling Point:</b>	No Data Available
<b>Flash Point:</b>	> 93.34 °C (200.01 °F)
<b>Evaporation Rate:</b>	No Data Available
<b>Lower Explosion Limit:</b>	No Data Available
<b>Upper Explosion Limit:</b>	No Data Available
<b>Vapor Pressure:</b>	No Data Available
<b>Vapor Density:</b>	No Data Available
<b>Density:</b>	ca. 1.07 g/cm <sup>3</sup>
<b>Relative Vapor Density:</b>	No Data Available
<b>Specific Gravity:</b>	Approximately 1.05 - 1.10 Estimated based on component(s)
<b>Solubility in Water:</b>	Partially soluble
<b>Partition Coefficient: n-octanol/water:</b>	No Data Available
<b>Auto-ignition Temperature:</b>	No Data Available
<b>Decomposition Temperature:</b>	No Data Available
<b>Dynamic Viscosity:</b>	No Data Available
<b>Kinematic Viscosity:</b>	No Data Available
<b>Bulk Density:</b>	Approximately 1,050 - 1,100 kg/m <sup>3</sup> Estimated based on component(s)

## 10. Stability and Reactivity

### Hazardous Reactions

Hazardous polymerisation does not occur.

### Stability

Stable

### Materials to Avoid

Oxidizing agents, Reducing agents, Isocyanates

### Conditions to Avoid

Avoid extreme heat or cold.

### Hazardous Decomposition Products

By Fire and Thermal Decomposition: Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke., Other undetermined compounds

## 11. Toxicological Information

**Likely Routes of Exposure:** Skin Contact  
Eye Contact

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## Inhalation

### Health Effects and Symptoms

**Acute:** Causes serious eye irritation with symptoms of reddening, tearing, swelling, and burning.

**Chronic:** Not expected to cause adverse chronic health effects.

### Toxicity Data for: BAYSYSTEMS 486STAR 4# BD

No data available for this product.

### Toxicity Data for Polyether Polyol

#### Acute Oral Toxicity

LD50: > 2000 mg/kg (rat, male/female) (OECD Test Guideline 401)

#### Acute Dermal Toxicity

LD50: > 2000 mg/kg (rat, male/female) (OECD Test Guideline 402)

#### Skin Irritation

rabbit, OECD Test Guideline 404, slight irritant

#### Eye Irritation

rabbit, moderate irritant

### Carcinogenicity:

No carcinogenic substances as defined by IARC, NTP and/or OSHA

## 12. Ecological Information

### Ecological Data for: BAYSYSTEMS 486STAR 4# BD

No data available for this product.

### Ecological Data for Polyether Polyol

#### Biodegradation

aerobic, < 50 %, Exposure time: 28 d

#### Acute and Prolonged Toxicity to Fish

LC0: > 1,000 mg/l (Zebra fish (Brachydanio rerio), 48 h)

#### Toxicity to Microorganisms

EC0: > 1,000 mg/l, (Activated sludge microorganisms, 3 h)

## 13. Disposal Considerations

### Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

### Empty Container Precautions

Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

#### 14. Transportation Information

**Land transport (DOT)**

Non-Regulated

**Sea transport (IMDG)**

Non-Regulated

**Air transport (ICAO/IATA)**

Non-Regulated

#### 15. Regulatory Information

**United States Federal Regulations**

**US. Toxic Substances Control Act:** Listed on the TSCA Inventory.

**|| No substances are subject to TSCA 12(b) export notification requirements.**

**US. EPA CERCLA Hazardous Substances (40 CFR 302) Components:**

None

**SARA Section 311/312 Hazard Categories:**

Acute Health Hazard

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components:**

None

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components:**

None

**US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):**

Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

**State Right-To-Know Information**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:**

<b><u>Weight percent</u></b>	<b><u>Components</u></b>	<b><u>CAS-No.</u></b>
>=1%	Plasticizer	<b>CAS# is a trade secret</b>
20 - 30%	Polyether Polyol	25214-63-5
>=1%	Polyether Polyol	<b>CAS# is a trade secret</b>
>=1%	Polyether Polyol	<b>CAS# is a trade secret</b>
>=1%	Polyether Polyol	<b>CAS# is a trade secret</b>

**California Prop. 65:**

Warning! This product contains chemical(s) known to the State of California to be Developmental toxin.

<b><u>Weight percent</u></b>	<b><u>Components</u></b>	<b><u>CAS-No.</u></b>
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Based on information provided by our suppliers, this product is considered "DRC Conflict Free" as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. S7-40-10; Date: 2012-08-22).

## 16. Other Information

The method of hazard communication for Covestro LLC is comprised of Product Labels and Safety Data Sheets.

Contact:	Product Safety Department
Telephone:	(412) 413-2835
SDS Number:	112000031758
Version Date:	08/29/2015
SDS Version:	2.0

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|| Changes since the last version are highlighted in the margin. This version replaces all previous versions.