

# SAFETY DATA SHEET



## 1. Identification

**Covestro 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:** BAYPREG F 200 COMP B  
**Material Number:** 82729675  
**Chemical Family:** Polyol System  
**Use:** Polyol components for the production of polyurethanes

## 2. Hazards Identification

### GHS Classification

Eye irritation: Category 2A  
Skin sensitisation: Category 1  
Carcinogenicity (Inhalation): Category 2  
HNOC - Halo vision:

### GHS Label Elements

Hazard pictograms:



Signal word: Warning

Hazard statements: Causes serious eye irritation.  
May cause an allergic skin reaction.  
Suspected of causing cancer if inhaled.  
Vapors can cause temporary corneal edema with symptoms of blurred vision or the appearance of halos around bright objects.

Precautionary statements: **Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing dust, mist, gas, vapors or spray.  
Wash skin and face thoroughly after handling.  
Contaminated work clothing must not be allowed out of the

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workplace.

Wear permeation resistant protective gloves and clothing. Wear eye and face protection.

**Response:**

IF exposed or concerned: Get medical attention.

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.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical attention.

Take off contaminated clothing and wash before reuse.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

### 3. Composition/Information on Ingredients

#### Hazardous Components

<b>Concentration</b>	<b>Components</b>	<b>CAS-No.</b>
15 - 40%	Polyether Polyol	CAS# is a trade secret
3 - 7%	Oleic Acid	112-80-1
3 - 7%	Carboxylated Amide	68650-79-3
1 - 5%	Carbon Black	1333-86-4

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., May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash., Vapors can cause temporary corneal edema with symptoms of blurred vision or the appearance of halos around bright objects.

#### Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. 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.

#### Inhalation

If inhaled, remove to fresh air. Get medical attention if irritation develops.

#### Ingestion

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

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## 5. Firefighting Measures

**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam, water spray for large fires.

**Unsuitable Extinguishing Media:** High volume water jet

### 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; Carbon Monoxide Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke., Other hazardous decomposition products may be formed.

## 6. Accidental Release Measures

### Spill and Leak Procedures

Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal. Use appropriate personal protective equipment during clean up. Evacuate and keep unnecessary people out of spill area.

## 7. Handling and Storage

### Handling/Storage Precautions

Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Keep container closed when not in use. Material is hygroscopic and may absorb small amounts of atmospheric moisture. If contamination with isocyanates is suspected, do not reseal containers. Avoid breathing dust, vapor, or mist. Avoid contact with eyes. Avoid contact with skin or clothing.

### Storage Period:

12 Months

### Storage Temperature

**Maximum:** 50 °C (122 °F)

### Storage Conditions

Store at room temperature.

### Substances to Avoid

Oxidizing agents, Isocyanates

## 8. Exposure Controls/Personal Protection

The recommendations in this section should not be a substitute for a personal protective equipment (PPE) assessment performed by the employer as required by 29 CFR 1910 Subpart I.

### Exposure Limits

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**Carbon Black (1333-86-4)**

US. ACGIH Threshold Limit Values

Time weighted average 3 mg/m3 (Inhalable fraction.)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Permissible exposure limit 3.5 mg/m3

US. ACGIH Threshold Limit Values

Hazard Designation: Group A3 Confirmed animal carcinogen with unknown relevance to humans.

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US. ACGIH Threshold Limit Values

Hazard Designation: Group A3 Confirmed animal carcinogen with unknown relevance to humans.

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.

**Personal protective equipment**

Avoid contact with skin, eyes and clothing.

**Industrial Hygiene/Ventilation Measures**

Use local and general exhaust ventilation to control levels of exposure.

**Respiratory Protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand Protection**

Ensure gloves remain in good condition during use and replace if any deterioration is observed.

Permeation resistant gloves., Nitrile rubber, Neoprene gloves, butyl-rubber

**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.

**9. Physical and Chemical Properties**

**State of Matter:** liquid

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<b>Color:</b>	Black
<b>Odor:</b>	Slight
<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>	164 °C (327.2 °F) (Pensky-Martens Open Cup)
<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>	1.046 g/cm <sup>3</sup> @ 20 °C (68 °F)
<b>Relative Vapor Density:</b>	No Data Available
<b>Specific Gravity:</b>	1.046 @ 20 °C (68 °F)
<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>	830 mPa.s @ 25 °C (77 °F)
<b>Kinematic Viscosity:</b>	No Data Available

## 10. Stability and Reactivity

### Hazardous Reactions

Hazardous polymerisation does not occur.

### Stability

Stable

### Materials to Avoid

Oxidizing agents, Isocyanates

### Conditions to Avoid

None known.

### Hazardous Decomposition Products

By Fire and Thermal Decomposition: Carbon Dioxide; Carbon Monoxide; Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke., Other hazardous decomposition products may be formed.

## 11. Toxicological Information

### Likely Routes of Exposure:

Skin Contact  
Eye Contact  
Inhalation

### Health Effects and Symptoms

**Acute:** Causes serious eye irritation with symptoms of reddening, tearing, swelling, and burning., May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash., Vapors can cause temporary corneal edema with symptoms of blurred vision or the appearance of halos around bright objects.

**Chronic:** Suspected of causing cancer.

**Toxicity Data for: BAYPREG F 200 COMP B**

**Acute Oral Toxicity**

Acute toxicity estimate: > 5,000 mg/kg (Calculation method)

**Acute Inhalation Toxicity**

Acute toxicity estimate: > 40 mg/l, 4 h, vapour (Calculation method)

**Skin Irritation**

rabbit, OECD Test Guideline 404, slight irritant  
Toxicological studies of a comparable product.

**Eye Irritation**

rabbit, OECD Test Guideline 405, irritating  
Studies of a comparable product.

**Toxicity Data for: Polyether Polyol**

**Skin Irritation**

In vitro test system, OECD Test Guideline 439, non-irritant

In vitro test system, OECD Test Guideline 431, Not corrosive

**Eye Irritation**

In vitro test system, OECD Test Guideline 437, negative

In vitro test system, OECD Test Guideline 492, positive

**Toxicity Data for: Oleic Acid**

**Acute Oral Toxicity**

LD50: 25,000 mg/kg (rat)

**Acute Dermal Toxicity**

LD50: > 3,000 mg/kg (Guinea pig)

**Skin Irritation**

Human, Draize, Moderately irritating

**Eye Irritation**

rabbit, Draize, Slightly irritating

**Sensitization**

Magnusson/Kligmann (Maximization Test): negative (Guinea pig)

negative (Human, Patch Test)

**Repeated Dose Toxicity**

90 Days, intraperitoneal: NOAEL: 0.09 g/kg, (Dog)

**Mutagenicity**

Genetic Toxicity in Vitro:

Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)

Positive and negative results were seen in various in vitro studies.

**Other Relevant Toxicity Information**

May cause irritation of respiratory tract.

**Toxicity Data for: Carboxylated Amide****Acute Oral Toxicity**

LD50: > 4,600 mg/kg (rat, male) (OECD Test Guideline 401)

**Skin Irritation**

rabbit, OECD Test Guideline 404, Exposure Time: 4 h, Corrosive

**Eye Irritation**

rabbit, OECD Test Guideline 405, severe irritant

**Sensitization**

Skin sensitisation:: positive (Guinea pig, Maximization Test)

Magnusson/Kligmann (Maximization Test): positive (OECD Test Guideline 406)

**Mutagenicity**

Genetic Toxicity in Vitro:

Chromosome aberration test in vitro: negative (Chinese hamster V79 cell line, Metabolic Activation: with/without)

Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)

**Toxicity Data for: Carbon Black****Acute Oral Toxicity**

LD50: > 8,000 mg/kg (rat, male/female) (OECD Test Guideline 401)

**Acute Dermal Toxicity**

LD50: > 3,000 mg/kg (rabbit)

**Skin Irritation**

rabbit, Non-irritating

**Eye Irritation**

Human, non-irritant

**Sensitization**

Buehler Test: negative (Guinea pig, OECD Test Guideline 406)

Skin sensitization (local lymph node assay (LLNA)):: negative (Mouse, OECD Test Guideline 429)

**Repeated Dose Toxicity**

13 weeks, Inhalative: NOAEL: 0.0011 mg/kg, (rat, )

**Mutagenicity**

Genetic Toxicity in Vitro:

Salmonella/microsome test (Ames test): negative

Mammalian cell - gene mutation assay: positive (other mammalian cell line, Metabolic Activation: without)

Micronucleus test: positive (other human cell line, Metabolic Activation: without)

Genetic Toxicity in Vivo:

Other assay: negative (Mouse, male, intraperitoneal)

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negative

#### **Carcinogenicity**

Several inhalation studies involving carbon black in female rats have shown increases in benign and malignant lung tumors. Although a large body of data on possible mechanisms of carcinogenicity in rats was considered by the IARC Working Group, it was not possible to state with confidence that the mechanisms of carcinogenicity in rats correlate to exposure in humans. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions.

#### **Developmental Toxicity/Teratogenicity**

rat, female, Inhalative, 10 days, daily,

#### **Other Relevant Toxicity Information**

May cause irritation of respiratory tract.

#### **Carcinogenicity:**

Carbon Black

IARC - Overall evaluation: 2B Possibly carcinogenic to humans.

## **12. Ecological Information**

### **Ecological Data for: BAYPREG F 200 COMP B**

No data available for this product.

#### **Ecological Data for Polyether Polyol**

#### **Additional Ecotoxicological Remarks**

No data available for this component.

#### **Ecological Data for Oleic Acid**

#### **Biodegradation**

Aerobic, 68 %, Exposure time: 5 Days

#### **Bioaccumulation**

44,000 BCF

Calculated value

#### **Acute and Prolonged Toxicity to Fish**

LC50: 205 mg/l (Fathead minnow (Pimephales promelas), 96 h)

#### **Toxicity to Microorganisms**

EC0: > 100 mg/l, (Pseudomonas putida)

#### **Ecological Data for Carboxylated Amide**

#### **Biodegradation**

Aerobic, 97 %, Exposure time: 28 d, Inherently biodegradable.

#### **Acute Toxicity to Aquatic Invertebrates**

EC50: 0.111 mg/l (Daphnia magna (Water flea), 48 h)

EC0: 0.32 mg/l (Daphnia magna (Water flea), 24 h)

EC50: 0.708 mg/l (Daphnia magna (Water flea), 24 h)

#### **Ecological Data for Carbon Black**

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**Acute and Prolonged Toxicity to Fish**

LC0: &gt; 1,000 mg/l (Danio rerio (zebra fish), 96 h)

**Acute Toxicity to Aquatic Invertebrates**

EC50: &gt; 5,600 mg/l (Water flea (Daphnia magna), 24 h)

**Toxicity to Microorganisms**

EC0: 100 - 800 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.

**14. Transportation Information****Land transport (DOT)****Non-Regulated****Sea transport (IMDG)**

**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Alkylaminocarboxamide)

**Hazard Class or Division:** 9

**UN number:** UN3082

**Packaging Group:** III

**Hazard Label(s):** MISCELLANEOUS

**Marine pollutant:** Marine pollutant

**Air transport (ICAO/IATA)**

**Proper Shipping Name:** Environmentally hazardous substance, liquid, n.o.s. (contains Alkylaminocarboxamide)

**Hazard Class or Division:** 9

**UN number:** UN3082

**Packaging Group:** III

**Hazard Label(s):** MISCELLANEOUS

**Marine pollutant:** Marine pollutant

**15. Regulatory Information****United States Federal Regulations****US. Toxic Substances Control Act:** Listed on the Active Portion of 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:**

Refer to hazard classification information in Section 2.

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**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:**

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
15 - 40%	Polyether Polyol	CAS# is a trade secret
>=1%	Polyether Polyol	CAS# is a trade secret
>=1%	Polyether Polyol	CAS# is a trade secret
>=1%	Polyether Polyol	CAS# is a trade secret
>=1%	Oleic Acid	112-80-1
3 - 7%	Carboxylated Amide	68650-79-3
1 - 5%	Carbon Black	1333-86-4

**New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:**

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
1 - 5%	Carbon Black	1333-86-4
0.1 - 1%	Ethylene Glycol	107-21-1

**Massachusetts Right to Know Extraordinarily Hazardous Substance List:**

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<0.1%	Aniline	62-53-3
1 - 5 ppm	Nitrobenzene	98-95-3

**California Proposition 65 List:**

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
1 - 5%	Carbon Black	1333-86-4
0.1 - 1%	Ethylene Glycol	107-21-1
<0.1%	Aniline	62-53-3
1 - 5 ppm	Nitrobenzene	98-95-3
70 - 75 ppm	Toluene	108-88-3

**CFATS (Chemical Facility Anti-Terrorism Standards) Chemicals**

To the best of our knowledge, this product does not contain Appendix A Chemicals of Interest (COI), at or above the Screening Threshold Quantity (STQ), as defined by the Department of Homeland Security Chemical Facility Anti-terrorism Standard (CFATS, 6 CFR Part 27).

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. Safety data sheets for all of our products and general product declarations are available for download at [www.productsafetyfirst.covestro.com](http://www.productsafetyfirst.covestro.com).

Contact:	Product Safety Department
Telephone:	(412) 413-2835
SDS Number:	112000038704
Version Date:	12/18/2018
SDS Version:	5.5

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