

# 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:** ARCOL® POLYOL PPG 1000  
**Material Number:** 05486637  
**Chemical Family:** Polyether Polyol  
**Use:** Polyol components for the production of polyurethanes

## 2. Hazards Identification

### GHS Classification

Acute toxicity (Oral): Category 4

### GHS Label Elements

Hazard pictograms:



Signal word: Warning

Hazard statements: Harmful if swallowed.

Precautionary statements:

### Prevention:

Wash skin and face thoroughly after handling.  
Do not eat, drink or smoke when using this product.

### Response:

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
Rinse mouth.

### Disposal:

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

### 3. Composition/Information on Ingredients

#### Hazardous Components

Concentration	Components	CAS-No.
80 - 100%	Polyether Polyol	25322-69-4

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:** Harmful if swallowed.

#### 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. Thoroughly clean shoes before reuse. Wash clothing before reuse. Get medical attention if irritation develops and persists.

#### Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if irritation develops.

#### Ingestion

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

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

### 6. Accidental Release Measures

#### Spill and Leak Procedures

Dike or dam spilled material and control further spillage, if possible. Cover spill with inert material (e. g.,

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dry sand or earth) and collect for proper disposal. Collect and place in appropriately marked sealable containers for disposal. Wash spill area with soap and water.

## 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 inhalation of vapour or mist.

### Storage Temperature

**Maximum:** 60 °C (140 °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, 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

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.

### Respiratory Protection

None required under normal conditions of use.

### Hand Protection

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

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

### Eye Protection

Safety glasses with side-shields

### Skin Protection

No special skin protection requirements during normal handling and use.

### 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

<b>State of Matter:</b>	liquid
<b>Appearance:</b>	viscous
<b>Color:</b>	Clear
<b>Odor:</b>	mild
<b>Odor Threshold:</b>	No Data Available
<b>pH:</b>	4.5 - 7.5
<b>Boiling Point:</b>	No Data Available
<b>Flash Point:</b>	171 - 179 °C (339.8 - 354.2 °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>	< 0.001 mmHg
<b>Vapor Density:</b>	No Data Available
<b>Density:</b>	No Data Available
<b>Relative Vapor Density:</b>	No Data Available
<b>Specific Gravity:</b>	1.01 @ 20 °C (68 °F)
<b>Solubility in Water:</b>	No Data Available
<b>Partition Coefficient: n-octanol/water:</b>	No Data Available
<b>Auto-ignition Temperature:</b>	No Data Available
<b>Decomposition Temperature:</b>	Not established
<b>Dynamic Viscosity:</b>	No Data Available
<b>Kinematic Viscosity:</b>	No Data Available
<b>Bulk Density:</b>	1,001 kg/m <sup>3</sup>
<b>Molecular Weight:</b>	1,000
<b>Pour point:</b>	< -25 °C (-13 °F)

## 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 (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

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## Eye Contact

### Health Effects and Symptoms

**Acute:** Harmful if swallowed.

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

### Toxicity Data for: ARCOL® POLYOL PPG 1000

#### Acute Oral Toxicity

Acute toxicity estimate: > 500 - < 2,000 mg/kg (Calculation method)

#### Acute Dermal Toxicity

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

### Toxicity Data for: Polyether Polyol

#### Acute Oral Toxicity

LD50: > 500 - < 2,000 mg/kg (rat, male)

#### Acute Dermal Toxicity

LD50: > 10,000 mg/kg (rabbit)

#### Skin Irritation

rabbit, OECD Test Guideline 404, non-irritant

#### Eye Irritation

rabbit, OECD Test Guideline 405, slight irritant

#### Sensitization

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

#### Repeated Dose Toxicity

4 w, Oral: NOAEL:  $\geq$  1,000 mg/kg, (rat, male/female, daily)

Studies of a comparable product.

#### Mutagenicity

Genetic Toxicity in Vitro:

Salmonella/microsome test (Ames test): No indication of mutagenic effects.

In vitro mammalian cell gene mutation test: negative (Chinese hamster V79 cell line, Metabolic Activation: with/without)

Studies of a comparable product.

Chromosome aberration test in vitro: negative (Human lymphocytes, Metabolic Activation: with/without)

Studies of a comparable product.

#### Toxicity to Reproduction/Fertility

Oral, daily, (rat, male/female) Fertility and developmental toxicity tests did not reveal any effect on reproduction.

Studies of a comparable product.

#### Developmental Toxicity/Teratogenicity

rat, female, Oral, 58 d, NOAEL (maternal): 1,000 mg/kg, negative

Studies of a comparable product.

### Carcinogenicity:

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

## 12. Ecological Information

### Ecological Data for: ARCOL® POLYOL PPG 1000

No data available for this product.

### Ecological Data for Polyether Polyol

#### **Biodegradation**

> 60 %, Exposure time: 28 d, i.e. readily biodegradable

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

LC50: > 100 mg/l (Poecilia reticulata (guppy), 96 h)

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

EC50: > 100 mg/l (Daphnia magna (Water flea), 48 h)

#### **Toxicity to Aquatic Plants**

EC0: >= 100 mg/l, (Desmodesmus subspicatus (Green algae), 72 h)

Studies of a comparable product.

#### **Toxicity to Microorganisms**

EC50: > 1,000 mg/l, (activated sludge, 3 h)

Studies of a comparable product.

## 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. Empty containers retain product residue; observe all precautions for product. Do not heat or cut container with electric or gas torch.

## 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

Material Name: ARCOL® POLYOL PPG 1000

Material Number: 05486637

**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.

**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>
80 - 100%	Polyether Polyol	25322-69-4

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

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
1 - 5 ppm	Acetaldehyde	75-07-0
25 - 30 ppm	Furan	110-00-9
5 - 10 ppm	Propylene Oxide	75-56-9

**California Proposition 65 List:**

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
1 - 5 ppm	Acetaldehyde	75-07-0
25 - 30 ppm	Furan	110-00-9
5 - 10 ppm	Propylene Oxide	75-56-9

**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  
Version Date: 03/06/2020  
SDS Version: 3.11

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