

# 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:** BAYHYDROL XP 2637  
**Material Number:** 06684084  
**Chemical Family:** Aqueous Polyurethane Resin Dispersion  
**Use:** Raw material for coatings, adhesives, sealants, or elastomers in industrial applications

## 2. Hazards Identification

This product is not classified as hazardous according to OSHA HazCom 2012 (29 CFR 1910.1200).

## 3. Composition/Information on Ingredients

### Hazardous Components

There are no hazardous components above the relevant concentration limits according to OSHA HazCom 2012.

### OTHER INGREDIENTS

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<1%	Triethylamine (TEA)	121-44-8

This product contains an amine neutralizing agent which is bound in the matrix of this product as a salt. This amine salt is considered essentially unreactive at room temperature. Generation of amine vapors is expected when this product is processed (heated) during the drying/hardening of the coating.

## 4. First Aid Measures

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

**Acute:** Not expected to cause adverse acute health effects.

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**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. Get medical attention if irritation develops. Wash clothing before reuse.

**Inhalation**

If inhaled, remove to fresh air. If breathing is difficult, give oxygen.

**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** 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, Isocyanate, Isocyanic Acid and other undetermined compounds.

**Unusual Fire/Explosion Hazards**

If this polyol is combined with phosphorus compounds, trimethylolpropanephosphate (TMPP), a known neurotoxin, can be given off in the event of a fire. Therefore, we do not recommend mixing this polyol with phosphorus compounds.

**6. Accidental Release Measures****Spill and Leak Procedures**

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

**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. Protect from freezing. Avoid contact with eyes and skin. Avoid breathing dust, vapor, or mist.

**Storage Period:**

6 Months: after receipt of material by customer

**Storage Temperature**

**Minimum:** 5 °C (41 °F)  
**Maximum:** 40 °C (104 °F)

**Storage Conditions**

Store separate from food products. Store in a cool dry place. Store in original or similar containers.

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**

Water reactives

**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****Triethylamine (TEA) (121-44-8)**

US. ACGIH Threshold Limit Values, as amended  
Time weighted average 0.5 ppm

US. ACGIH Threshold Limit Values, as amended  
Skin Dermal absorption possible

US. ACGIH Threshold Limit Values, as amended  
Short term exposure limit 1 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended  
Permissible exposure limit 25 ppm, 100 mg/m<sup>3</sup>

US. ACGIH Threshold Limit Values, as amended  
Hazard Designation: Group A4 Not classifiable as a human carcinogen.

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**

Respiratory protection is recommended in insufficiently ventilated working areas and during heating or spraying. For components with occupational exposure limits, when workers are facing concentrations above those limits, they must use appropriate certified respirators.

**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.

**Eye Protection**

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Safety glasses with side-shields

#### **Skin Protection**

Permeation resistant clothing, Gloves, long sleeved shirts and pants.

#### **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>	thixotropic
<b>Color:</b>	Milky White, to, Brown
<b>Odor:</b>	slight
<b>Odor Threshold:</b>	No Data Available
<b>pH:</b>	ca. 7.1 @ 22 °C (71.6 °F) (Determined in a 10 % aqueous solution)
<b>Freezing Point:</b>	Approximately 0 °C (32 °F) similar to water
<b>Boiling Point:</b>	Approximately 100 °C (212 °F) similar to water
<b>Flash Point:</b>	Not applicable (water based product), however, solid material will support combustion if water has been evaporated.
<b>Evaporation Rate:</b>	No Data Available
<b>Lower Explosion Limit:</b>	Not Established
<b>Upper Explosion Limit:</b>	Not Established
<b>Vapor Pressure:</b>	No Data Available
<b>Vapor Density:</b>	No Data Available
<b>Density:</b>	ca. 1.05 g/cm <sup>3</sup> @ 20 °C (68 °F) (DIN 51757)
<b>Relative Vapor Density:</b>	No Data Available
<b>Specific Gravity:</b>	No Data Available
<b>Solubility in Water:</b>	miscible
<b>Partition Coefficient: n-octanol/water:</b>	No Data Available
<b>Auto-ignition Temperature:</b>	ca. 420 °C (788 °F) (DIN 51794)
<b>Decomposition Temperature:</b>	No Data Available
<b>Unblocking Temperature:</b>	No Data Available
<b>Dynamic Viscosity:</b>	No Data Available
<b>Kinematic Viscosity:</b>	No Data Available
<b>Bulk Density:</b>	1,006 kg/m <sup>3</sup>
<b>Molecular Weight:</b>	No Data Available
<b>Self Ignition:</b>	not applicable

### **10. Stability and Reactivity**

#### **Hazardous Reactions**

Hazardous polymerisation does not occur.

#### **Stability**

Stable

#### **Materials to Avoid**

Water reactives

**Conditions to Avoid**

Protect from freezing.

**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, Isocyanate, Isocyanic Acid and other undetermined compounds.

**11. Toxicological Information**

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

**Health Effects and Symptoms**

**Acute:** Not expected to cause adverse acute health effects.

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

**Toxicity Data for: BAYHYDROL XP 2637**

Data on the product is not available.

Please find the data available for the components.

**Toxicity Data for: Polyurethane Resin****Acute Oral Toxicity**

LD50: > 2,000 mg/kg (rat, female) (OECD Test Guideline 423)

Studies of a comparable product.

**Acute Inhalation Toxicity**

Acute toxicity estimate: > 5 mg/l, , dust/mist

Toxicological studies of a comparable product.

**Acute Dermal Toxicity**

Acute toxicity estimate: > 2,000 mg/kg

Studies of a comparable product.

**Skin Irritation**

rabbit, OECD Test Guideline 404, slight irritant

Studies of a comparable product.

**Eye Irritation**

rabbit, OECD Test Guideline 405, slight irritant

Studies of a comparable product.

**Sensitization**

Skin sensitisation according to Buehler (epicutaneous test):: negative (Guinea pig, OECD Test Guideline 406)

Studies of a comparable product.

**Repeated Dose Toxicity**

No data available.

**Mutagenicity**

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Genetic Toxicity in Vitro:

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

Studies of a comparable product.

Ames test: negative (Escherichia coli, Metabolic Activation: with/without)

Studies of a comparable product.

Genetic Toxicity in Vivo:

No data available.

**Carcinogenicity**

No data available.

**Toxicity to Reproduction/Fertility**

No data available.

**Developmental Toxicity/Teratogenicity**

No data available.

**Carcinogenicity:**

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

**12. Ecological Information**

**Ecological Data for: BAYHYDROL XP 2637**

Data on the product is not available. Please find the data available for the components.

**Ecological Data for Polyurethane Resin**

**Biodegradation**

Closed Bottle test, 3 %, Exposure time: 28 d, i.e. not readily degradable

Studies of a comparable product.

**Acute and Prolonged Toxicity to Fish**

LC50: > 100 mg/l (Brachydanio rerio (zebrafish), 96 h)

Studies of a comparable product.

**Acute Toxicity to Aquatic Invertebrates**

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

Studies of a comparable product.

**Toxicity to Aquatic Plants**

No data available.

**Toxicity to Microorganisms**

EC50: > 100 mg/l, (activated sludge, 96 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**

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Recondition or dispose of empty container in accordance with governmental regulations.

#### 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 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>
>=1%	Water	7732-18-5
>=1%	Polyurethane Resin	CAS# is a trade secret

**California Proposition 65 List:**

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<100 ppm	Toluene	108-88-3

<1 ppm

Hexachlorobenzene

118-74-1

**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: 05/06/2021  
SDS Version: 3.11

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