

# 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 UV 2720/1  
**Material Number:** 79962819  
**Chemical Family:** Aqueous Polyacrylate 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>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
0.1 - 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. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops.

**Inhalation**

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. 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** 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; Carbon Monoxide 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 material 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 the use of phosphorus compounds with this material.

**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. Protect from freezing. Do not expose to direct sunlight. Do not expose to light. Protect from intense radiation (light, UV)

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**Storage Period:**

6 Months: after receipt of material by customer

**Storage Temperature**

**Minimum:** 5 °C (41 °F)

**Maximum:** 30 °C (86 °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, Water reactives

<b>8. Exposure Controls/Personal Protection</b>
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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  
Time Weighted Average (TWA): 1 ppm

US. ACGIH Threshold Limit Values  
Short Term Exposure Limit (STEL): 3 ppm

US. ACGIH Threshold Limit Values  
Skin designation: Can be absorbed through the skin.

US. ACGIH Threshold Limit Values  
Time weighted average 0.5 ppm

US. ACGIH Threshold Limit Values  
Skin Dermal absorption possible

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

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

US. ACGIH Threshold Limit Values  
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**

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

#### **Respiratory Protection**

Maintain levels below the recommended exposure limits., When workers are facing concentrations above the exposure limit 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.

#### **Eye Protection**

Chemical safety goggles or safety glasses with side-shields.

#### **Skin Protection**

Wear cloth work clothing including long pants and long-sleeved shirts.

#### **Additional Protective Measures**

Ultraviolet (UV) light source is used for curing this product. UV light can be hazardous to unprotected skin and eyes. Protective eyewear should always be worn when working in UV curing areas. Skin protection such as long sleeves, long pants, and gloves should be worn when UV lights are being used. 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. Store separate from food products.

### **9. Physical and Chemical Properties**

<b>State of Matter:</b>	liquid
<b>Color:</b>	Colorless, to, White
<b>Odor:</b>	mild
<b>Odor Threshold:</b>	No Data Available
<b>pH:</b>	ca. 8.1 (Determined in a 10 % aqueous solution)
<b>Boiling Point:</b>	ca. 97 °C (206.6 °F) @ 1,013 hPa (DIN 53171)
<b>Flash Point:</b>	(DIN EN ISO 2719) No flash point up to initial boiling point.
<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. 1.06 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>	No Data Available
<b>Partition Coefficient: n-octanol/water:</b>	No Data Available
<b>Auto-ignition Temperature:</b>	ca. 450 °C (842 °F) (DIN 51794)
<b>Decomposition Temperature:</b>	No Data Available
<b>Dynamic Viscosity:</b>	ca. 119 mPa.s @ 20 °C (68 °F) (DIN 53019)
<b>Kinematic Viscosity:</b>	No Data Available
<b>Pour point:</b>	ca. 0 °C (32 °F) (ISO 3016)
<b>Self Ignition:</b>	not applicable

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

**Hazardous Reactions**

Hazardous polymerisation does not occur.

**Stability**

Stable

**Materials to Avoid**

Oxidizing agents, Isocyanates, Water reactives

**Conditions to Avoid**

Protect from freezing. Do not expose to direct sunlight. Avoid extreme heat.

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

**11. Toxicological Information****Likely Routes of Exposure:**

Skin Contact  
Eye Contact  
Inhalation

**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 UV 2720/1**

Data is based on a similar product.

**Acute Oral Toxicity**

LD50: > 2,000 mg/kg (rat) (OECD Test Guideline 401)

**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.

**Mutagenicity**

Genetic Toxicity in Vitro:

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

Studies of a comparable product.

**Carcinogenicity:**

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

## 12. Ecological Information

### Ecological Data for: BAYHYDROL UV 2720/1

Data is based on a similar product.

#### **Biodegradation**

1 %, Exposure time: 28 d, i.e. not readily degradable  
Ecotoxicological reports on a comparable product

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

LC50: 35.4 mg/l (Danio rerio (zebra fish), 96 h)  
Ecotoxicological reports on a comparable product

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

EC50: 316 mg/l (Daphnia magna (Water flea), 48 h)  
Ecotoxicological reports on a comparable product

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

IC50: 67 mg/l, (scenedesmus subspicatus, 72 h)  
Ecotoxicological reports on a comparable product

#### **Toxicity to Microorganisms**

EC50: 9,115 mg/l, (activated sludge)  
Ecotoxicological reports on 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.

## 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:**

To the best of our knowledge, this material is not included in the Toxic Substances Control Act (TSCA) Inventory, and is defined as a new chemical substance which cannot be imported or

manufactured for commercial purposes without complying with the Pre-manufacture Notice (PMN) requirements codified at 40CFR Part 720. Therefore, we are providing you a small quantity (as defined at 40CFR Part 720.36 (a) (1) ) of this product with the understanding it is to be used solely in the course of Research and Development (R&D), as defined in Section 5 (h) (3) of TSCA and 40 CFR Part 720.

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>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
>=1%	Water	7732-18-5
>=1%	Polyurethane Resin	CAS# is a trade secret
5 - 10%	Dipentaerythritol Hexaacrylate	29570-58-9
0.1 - 1%	Triethylamine (TEA)	121-44-8

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

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
0.1 - 1%	Acetone	67-64-1
0.1 - 1%	Triethylamine (TEA)	121-44-8

**California Proposition 65 List:**

None.

**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:	112000038722
Version Date:	05/11/2018
SDS Version:	2.6

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