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 2923
Material Number: 86772922
Chemical Family: Urethane Acrylate Aqueous Dispersion
Use: Raw material for coatings, inks, adhesives, sealants, or elastomers in industrial applications

2. Hazards Identification

GHS Classification
Skin sensitisation: Category 1

GHS Label Elements
Hazard pictograms:

Signal word: Warning

Hazard statements: May cause an allergic skin reaction.

Precautionary statements:

Prevention:
Avoid breathing dust, mist, gas, vapors or spray.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
Response:
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical attention.
Wash contaminated clothing before reuse.
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.
3 - 7%	2-Propenoic acid, reaction products with dipentaerythritol	1384855-91-7

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

OTHER INGREDIENTS

Concentration	Components	CAS-No.
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: May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash.

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 (CO2), 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 (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke, Isocyanate, Isocyanic Acid and other undetermined 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. Wash spill area with soap and water. Ventilate area to remove vapors or dust.

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

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
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/m3

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
General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines. Thermal processing operations should be ventilated to control gases and fumes given off during processing. Curing ovens must be ventilated to prevent the build up of explosive atmospheres and to prevent off gases from entering the work place.

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
Chemical safety goggles or 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. Store separate from food products.

9. Physical and Chemical Properties

State of Matter:	liquid
Color:	No Data Available
Odor:	mild
Odor Threshold:	No Data Available
pH:	7.7 (Determined in a 10 % aqueous solution)
Freezing Point:	No Data Available
Setting Point:	No Data Available
Melting Point:	No Data Available
Flash Point:	96 °C (204.8 °F) @ 1,013 hPa (DIN EN ISO 2719)
Evaporation Rate:	No Data Available
Lower explosion limit:	No Data Available
Upper Explosion Limit:	No Data Available
Vapor Pressure:	No Data Available
Vapor Density:	No Data Available
Density:	ca. 1.05 g/cm³ @ 20 °C (68 °F)
Relative Vapor Density:	No Data Available
Specific Gravity:	No Data Available
Solubility in Water:	No Data Available
Partition Coefficient: n-	No Data Available

octanol/water:	
Auto-ignition Temperature:	440 °C (824 °F) (DIN 51794)
Decomposition Temperature:	No Data Available
Unblocking Temperature:	No Data Available
Softening point:	No Data Available
Dynamic Viscosity:	93 mPa.s @ 20 °C (68 °F)
Kinematic Viscosity:	No Data Available
Bulk Density:	No Data Available
Molecular Weight:	No Data Available
Pour point:	No Data Available

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 (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke, Isocyanate, Isocyanic Acid and other undetermined compounds.

11. Toxicological Information

Likely Routes of Exposure: Skin Contact
Eye Contact
Ingestion
Inhalation

Health Effects and Symptoms

Acute: May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash.
Chronic: Not expected to cause adverse chronic health effects.

Toxicity Data for: BAYHYDROL UV 2923

Data on the product is not available.

Please find the data available for the components.

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

Toxicity Data for: 2-Propenoic acid, reaction products with dipentaerythritol

Acute Oral Toxicity

LD50: > 2,000 mg/kg (rabbit)

Acute Inhalation Toxicity
LC50:
no data available

Acute Dermal Toxicity
LD50: > 2,000 mg/kg (rabbit)

Skin Irritation
rabbit, Non-irritating

Eye Irritation
rabbit, irritating

Sensitization
May cause sensitization by skin contact.

Mutagenicity
Genetic Toxicity in Vitro:
no data available

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

12. Ecological Information

Ecological Data for: BAYHYDROL UV 2923

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

Ecological Data for 2-Propenoic acid, reaction products with dipentaerythritol
Biodegradation
aerobic, 2 %, Exposure time: 28 d, i.e. not readily degradable

Acute and Prolonged Toxicity to Fish
LC50: 13 mg/l (Cyprinus carpio (Carp), 96 h)

Acute Toxicity to Aquatic Invertebrates
EC50: 18 mg/l (Daphnia magna (Water flea), 48 h)

NOEC: 8.4 mg/l (Daphnia magna (Water flea), 48 h)

Toxicity to Aquatic Plants
EC50: 21 mg/l, (Pseudokirchneriella subcapitata (green algae), 72 h)

NOEC: 6.6 mg/l, (Pseudokirchneriella subcapitata (green algae), 72 h)

Toxicity to Microorganisms
EC50: > 100 mg/l, (activated sludge, 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)
Non-Regulated

Air transport (ICAO/IATA)
Non-Regulated

15. Regulatory Information

United States Federal Regulations

US. Toxic Substances Control Act: This product and its components are either on the Active Portion of the TSCA Inventory or meet the requirements for the Polymer Exemption (PE).

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

US. EPA CERCLA Hazardous Substances (40 CFR 302.4) 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:

Concentration	Components	CAS-No.
<1 ppm	Hexachlorobenzene	118-74-1

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:

Concentration	Components	CAS-No.
>=1%	Water	7732-18-5
>=1%	Urethane Acrylate Resin	CAS# is a trade secret
>=1%	Urethane Modified Polyesteracrylate Resin	CAS# is a trade secret
3 - 7%	2-Propenoic acid, reaction products with dipentaerythritol	1384855-91-7
0.1 - 1%	Triethylamine (TEA)	121-44-8

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

Concentration	Components	CAS-No.
0.1 - 1%	Acetone	67-64-1
0.1 - 1%	Triethylamine (TEA)	121-44-8

Massachusetts Right to Know Extraordinarily Hazardous Substance List:

Concentration	Components	CAS-No.
<100 ppm	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6

California Proposition 65 List:

Concentration	Components	CAS-No.
<0.1%	Toluene	108-88-3
<0.1%	1,1,1-trimethylol propane triacrylate	15625-89-5
<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.

Contact:	Product Safety Department
Telephone:	(412) 413-2835
Version Date:	12/12/2023
SDS Version:	1.1

be considered a part of our terms and conditions of sale. The user is responsible for determining whether the Covestro product is suitable for user's method of use or application. Covestro is not liable for any failure to observe the precautionary measures described in this SDS or for any misuse of the product.