

# 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 A 2457  
**Material Number:** 86520400  
**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>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<0.1%	Ammonia	7664-41-7

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.

Material Name: BAYHYDROL A 2457

Material Number: 86520400

**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 (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke., Other undetermined compounds, Acrylic Acid

**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 Period:**

6 Months: after receipt of material by customer

**Storage Temperature**

**Minimum:** 0 °C (32 °F)

**Maximum:** 30 °C (86 °F)

Material Name: BAYHYDROL A 2457

Material Number: 86520400

**Storage Conditions**

Store separate from food products. Do not expose to direct sunlight.

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****Ammonia (7664-41-7)**

US. ACGIH Threshold Limit Values, as amended  
Time weighted average 25 ppm

US. ACGIH Threshold Limit Values, as amended  
Short term exposure limit 35 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended  
Permissible exposure limit 50 ppm, 35 mg/m<sup>3</sup>

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**

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

<b>State of Matter:</b>	liquid
<b>Color:</b>	White
<b>Odor:</b>	slight inherent odour
<b>Odor Threshold:</b>	No Data Available
<b>pH:</b>	ca. 8.1 @ 25 °C (77 °F) (Determined in a 10 % aqueous solution)
<b>Boiling Point:</b>	ca. 99 °C (210.2 °F) @ 1,013 hPa (EG A2)
<b>Flash Point:</b>	(closed cup, 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>	Approximately 26 hPa @ 20 °C (68 °F) (EG A4) Approximately 125 hPa @ 50 °C (122 °F) (EG A4) Approximately 153 hPa @ 55 °C (131 °F) (EG A4)
<b>Vapor Density:</b>	No Data Available
<b>Density:</b>	ca. 1.04 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. 425 °C (797 °F) @ 997 hPa (DIN 51794)
<b>Decomposition Temperature:</b>	No Data Available
<b>Unblocking Temperature:</b>	No Data Available
<b>Dynamic Viscosity:</b>	ca. 23 mPa.s @ 20 °C (68 °F) (DIN 53019)
<b>Kinematic Viscosity:</b>	No Data Available
<b>Bulk Density:</b>	No Data Available
<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., Other undetermined compounds, Acrylic Acid

## 11. Toxicological Information

**Likely Routes of Exposure:** Skin Contact  
Eye Contact  
Ingestion  
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 A 2457

Data on the product is not available.

Please find the data available for the components.

### Toxicity Data for: Polyacrylate Resin

#### Toxicity Note

Data is based on a similar product.

#### Acute Oral Toxicity

LD50: > 5,000 mg/kg (rat)

#### Skin Irritation

rabbit, non-irritant

Toxicological studies of a comparable product.

#### Eye Irritation

rabbit, slight irritant

Toxicological studies of a comparable product.

#### Sensitization

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

Toxicological studies of a comparable product.

#### Mutagenicity

Genetic Toxicity in Vitro:

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

Toxicological studies of a comparable product.

#### Carcinogenicity:

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

## 12. Ecological Information

### Ecological Data for: BAYHYDROL A 2457

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

### Ecological Data for Polyacrylate Resin

Material Name: BAYHYDROL A 2457

Material Number: 86520400

**Biodegradation**

5 %, Exposure time: 28 d, i.e. not readily degradable  
Ecotoxicological reports on a comparable product

**Acute and Prolonged Toxicity to Fish**

LC50: > 100 mg/l (Danio rerio (zebra fish), 96 h)  
Ecotoxicological reports on a comparable product

**Toxicity to Microorganisms**

EC50: > 10,000 mg/l, (activated sludge)  
Ecotoxicological reports on a comparable product

**Additional Ecotoxicological Remarks**

Data is based on a similar 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:** 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%	Polyacrylate Resin	CAS# is a trade secret
>=1%	Polyether Polyol	CAS# is a trade secret

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

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<0.1%	Ammonia	7664-41-7
<0.1%	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6

**California Proposition 65 List:**

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<1 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  
Version Date: 05/09/2021  
SDS Version: 1.2

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