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SAFETY DATA SHEET

SECTION 1 - Identification

1.1 Product Identifier

- Product Name • CARPOL® EDAP-800 Polyol
- Synonyms • Polyol Resin Blend; Ethylenediamine, Ethoxylated and Propoxylated

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

- Recommended Use • Component for Polyurethane
- Restrictions on Use • Industrial use only

1.3 Details of the Supplier of the Safety Data Sheet

- Manufacturer • Carpenter Co.
5016 Monument Ave.
Richmond, Virginia 23230
(804) 233-0606

1.4 Emergency Telephone

- Chemtrec • (800) 424-9300 (24-hr number)

SECTION 2 - Hazards Identification

2.1 Classification of the Substance or Mixture

Classification in accordance with 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and GHS (5th Edition):

Eye Irritation Category 2A – H319

2.2 GHS Label Elements

Hazard Pictogram



Signal Word

WARNING

Hazard Statements

H319 – Causes serious eye irritation.

Precautionary Statements

Prevention

P280 - Wear eye protection.
P264 - Wash thoroughly after handling.

Response P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3 Hazards Not Otherwise Classified

- Small amounts swallowed may cause gastrointestinal discomfort.
- Refer to Section 16 Other Information for relevant EU CLP phrases.

SECTION 3 - Composition/Information on Ingredients

3.1 Substance

Name	Identifier	% (weight)
Ethylenediamine, ethoxylated and propoxylated	CAS# 26316-40-5	100

3.2 Mixtures

Material does not meet the criteria of a mixture according to United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

SECTION 4 - First Aid Measures

4.1 Description of First Aid Measures

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|----------------------------|---|
| By route of inhalation | <ul style="list-style-type: none"> • Remove victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel. Seek medical attention. |
| By route of dermal contact | <ul style="list-style-type: none"> • Remove contaminated clothing and shoes. Wash thoroughly with soap and water. Seek medical attention if irritation develops. |
| By route of eye contact | <ul style="list-style-type: none"> • Flush with plenty of water for at least 15 minutes while holding the eyelid(s) open. Seek medical attention. |
| By route of ingestion | <ul style="list-style-type: none"> • DO NOT INDUCE VOMITING. If victim is conscious, give 1 to 2 glasses of water for dilution. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Seek medical attention immediately. |

4.2 Most Important Symptoms and Effects, Acute and Chronic

- Refer to Section 11 Toxicological Information.

4.3 Indication of Immediate Medical Attention and Special Treatment If Needed

- Treat symptomatically and supportively.

SECTION 5 - Firefighting Measures

5.1 Extinguishing Media

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| Suitable Extinguishing Media | • Dry chemical, foam, carbon dioxide, water fog or fine spray. |
| Unsuitable Extinguishing Media | • Do not use direct water spray. May spread fire. |

5.2 Special Hazards Arising From the Substance or Mixture

- May produce oxides of carbon and nitrogen on combustion. Smoke may be toxic and irritating.

5.3 Special Protective Actions for Firefighters

- Responding personnel must wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing.

SECTION 6 - Accidental Release Measures

6.1. Personal Precautions, Protective Equipment, and Emergency Procedures

- Isolate the area. Keep unauthorized people away. Do not touch or walk through the spilled material. Spilled material may be slippery. Ensure adequate ventilation in enclosed area. Eliminate all ignition sources. Use protective equipment appropriate for the size of the spill.

6.2 Environmental Precautions

- Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

6.3 Methods and Materials for Containment and Clean Up

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| Methods | • Stop leak, dam spill, and transfer liquid into a suitable container.
• Collect residue with absorbent and transfer into a suitable container for proper disposal. |
| Materials | • For large spills, responding personnel must use supplied-air positive pressure breathing apparatus.
• Use an inert absorbent (sand, earth or similar). |

6.4 Reference to Other Sections

- Refer to Section 8 for exposure control and personal protective equipment information.
- Refer to Section 12 for ecological information.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

- Avoid breathing dust, vapor or spray mist.
- Do not use in areas without adequate ventilation.
- Avoid contact with eyes, skin, and clothing.
- Use good safety and industrial hygiene practices.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Storage	<ul style="list-style-type: none">• Store materials in a cool, well ventilated, dry place. Keep containers tightly closed when not in use. Do not store and transport with oxidizers and acids.
Incompatibilities	<ul style="list-style-type: none">• Keep away from oxidizing materials, acids, isocyanates.

SECTION 8: Exposure Controls/ Personal Protection

8.1 Control Parameters

Exposure Limits/Guidelines	<ul style="list-style-type: none">• None established.
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8.2 Exposure Controls

Engineering Controls	<ul style="list-style-type: none">• Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.
Eye/Face Protection	<ul style="list-style-type: none">• Safety glasses with side shields. Chemical goggles if there is a significant risk of splashing.
Respiratory Protection	<ul style="list-style-type: none">• None required under normal use. If product is heated or sprayed, appropriate respiratory protection may be needed.
Skin Protection	<ul style="list-style-type: none">• Wear suitable working clothes and shoes.• Depending on the potential for exposure, chemical resistant gloves may not be needed (e.g. incidental use). As with any chemical, skin contact should be minimized with good work practices and PPE where needed. Wear chemical resistant gloves appropriate for the intended use. Consult glove manufacturers for assistance in choosing appropriate gloves.
Ingestion	<ul style="list-style-type: none">• Do not eat, drink or smoke in work area. Wash hands before eating or smoking.
Environmental Exposure Controls	<ul style="list-style-type: none">• No data available.
Additional Protection Measures	<ul style="list-style-type: none">• Use near eyewash station and safety shower.

SECTION 9: Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	• Liquid	Odor	• Low odor
Appearance /Color	• Clear	Odor Threshold	• No data available
General Properties			
Boiling Point	• No data available	Melting Point	• No data available
Decomposition Temperature	• No data available	pH	• No data available
Density (at 25°C)	• No data available	Water Solubility	• High
Solvent Solubility	• No data available	Viscosity (at 25°C)	• No data available
Explosive Properties	• No data available	Specific Gravity/Relative Density	• 1.05 (H ₂ O=1)
Volatility			
Vapor Pressure	• No data available	Vapor Density	• No data available
Evaporation Rate	• No data available	VOC (Vol.)	• No data available
Volatiles (Vol.)	• No data available		
Flammability			
Flash Point	• >200°F (PMCC)	LEL	• No data available
UEL	• No data available	Flammability (solid, gas)	• No data available
Auto-ignition Temperature	• No data available		
Environmental			
Octanol/Water Partition Coefficient	• No data available		

9.2. Other Information

No additional information available

SECTION 10: Stability and Reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical Stability

Stable under normal temperatures and pressures.

10.3 Possibility of Hazardous Reactions

No data available.

10.4 Conditions to Avoid

Elevated temperatures and moisture.

10.5 Incompatible Materials

Oxidizing materials, acids, isocyanates.

10.6 Hazardous Decomposition Products

No data available.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

Most likely routes of exposure include eye and skin exposure.

Acute Toxicity

Chemical	LD ₅₀ oral rat	LD ₅₀ dermal rabbit	LC ₅₀ inhalation rat
Ethylenediamine, Propoxylated and Ethoxylated	>3000 mg/kg (estimated)	No data available	No data available

Skin Corrosion/Irritation

- Based on available information, skin corrosion/irritation is not expected under normal conditions of use.

Serious Eye Damage/Irritation

- Eye Irritation Category 2A – Causes serious eye irritation (based on similar chemical)

Source: ECHA; OECD Guideline 405; Rabbit

Respiratory or Skin Sensitization

- Based on available information, sensitization criteria were not met (based on similar chemical).

Germ Cell Mutagenicity

- Available studies have not indicated this material to be a mutagen.

Carcinogenicity

- Not listed under IARC, NTP, or OSHA.

Reproductive Toxicity

- Based on available data, classification criteria are not met.

Specific Target Organ Toxicity (single exposure)

- No data available

Specific Target Organ Toxicity (repeated exposure)

- No data available

Aspiration Hazard

- No data available

11.2 Potential Health Effects

Inhalation

Acute	• May result in respiratory irritation.
Chronic	• None known.

Skin

Acute	• May cause slight irritation.
Chronic	• None known.

Eye

Acute	• Causes serious eye irritation.
Chronic	• None known.

Ingestion

- | | |
|---------|--------------------------------|
| Acute | • May be harmful if swallowed. |
| Chronic | • None known. |

SECTION 12: Ecological Information

12.1 Toxicity

This product is not expected to cause significant effects in the aquatic environment.

12.2 Persistence and Degradability

No data available.

12.3 Bioaccumulative Potential

No data available.

12.4 Mobility in Soil

No data available.

12.5 Other Adverse Effects

No data available.

SECTION 13: Disposal Considerations

13.1 Waste Disposal Method

Product Waste

- Do not dump into any sewers, on the ground, or into any body of water.
- All disposal methods must be in compliance with Federal, State/Provincial, and local regulations.
- Store material for disposal as indicated in Section 7 Handling and Storage.

Packaging Waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport Information

U.S. DOT

Not regulated.

SECTION 15: Regulatory Information

15.1 Regulatory Status

CERCLA Hazardous Substances (40 CFR 302): None reportable.

SARA 311/312: Acute health hazard.

SARA 313: None reportable.

15.2 US State Regulations

STATE RIGHT-TO-KNOW: To the best of our knowledge, this product contains no chemical known to the State of California to cause cancer, birth defects, or other reproductive harm. (California Health and Safety Code Section 25249.6).

15.3 Canadian Regulations

DSL: All components of this product are listed on, or exempt from the DSL.

WHMIS INFORMATION: Not a "Controlled Product" under WHMIS.

15.4 International Inventories*

United States: All components of this product are listed on the TSCA inventory.

Australia: All components of this product are listed on the AICS.

China: All components of this product are listed on the IECSC.

Japan: All components of this product listed on the ENCS.

Korea: All components of this product are listed on the ECL.

Philippines: All components of this product are listed on the PICCS.

Reach: EC 500-047-1

NLP: 500-047-1

*=Although a chemical may be listed on a country's inventory, it may not indicate a hazard or regulatory control for use.

SECTION 16: Other Information

16.1 HMIS AND NFPA RATINGS

HMIS Classification

Health: 1

Flammability: 1

Reactivity: 1

NFPA Ratings

Health: 2

Flammability: 1

Instability: 1

Special: None

16.2 EU CLP Relevant Phrases

R36 – Irritating to eyes

S26 – in case of contact with eyes, rinse immediately with plenty of water and seek medical advice

16.3 Preparation By

I.H. Department

16.4 Preparation Date

July 11, 2012

16.5 Last Revision Date

March 4, 2015

16.6 Disclaimer/Statement of Liability

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