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## Material Safety Data Sheet

### Section I.

#### GENERAL INFORMATION

**Product Name:** LDC-170  
**Description:** Polyol Resin Blend  
**Manufacturer's Name:** Carpenter Co.-Chemical Systems Division  
5016 Monument Avenue  
Richmond, Virginia 23230  
Carpenter Co.-  
**Information Telephone:** Chemical Systems Division (804) 233-0606  
**Emergency Telephone:** Chemtrec (800) 424-9300  
**Preparation Date:** February 2, 2005

### Section II.

#### HAZARDOUS INGREDIENTS

Chemical Name	Exposure Limits in Air	
	OSHA (PEL)	ACGIH (TLV)
Alkyl Phosphate	Not Est.	Not Est.
Amine Catalyst	Not Est.	Not Est.
Diethylene Glycol	Not Est.	Not Est.
HFC-245fa	Not Est.	Not Est.
Polysiloxane Surfactant	Not Est.	Not Est.

### Section III.

#### PHYSICAL CHEMICAL CHARACTERISTICS

<b>Boiling Point (°F):</b>	N.Av.	<b>Specific Gravity:</b>	1.25-1.28 (H <sub>2</sub> O=1)
<b>Vapor Pressure:</b> (mm Hg, @ 20°C)	N.Av.	<b>Melting Point (°F):</b>	N.Av.
<b>Vapor Density:</b> (air=1)	N.Av.	<b>Evaporation Rate:</b> (butyl acetate=1)	N.Av.

**Solubility in H<sub>2</sub>O:** Low.

**Appearance and Odor:** Brown liquid, faint sweetish odor.

### Section IV.

#### FIRE AND EXPLOSION DATA

**Flash Point (°F):** >200 (PMCC)      **LEL:** N.Av.      **UEL:** N.Av.

**Extinguishing Media:** CO<sub>2</sub>, dry chemical, foam, or water spray.

**Special Fire Fighting Procedures:** Responding personnel must wear self-contained breathing apparatus, and protective gear. Do not spray pool fires with direct water spray.

**Unusual Fire or Explosion Hazards:** Drums may rupture under fire conditions.

**Section V.**

**REACTIVITY DATA**

**Stability:** Stable.

**Conditions to Avoid:** Elevated temperatures; exposure to sparks, hot spots, and open flames.

**Incompatibility:** Strong acids and alkalis, reactive metals, strong oxidizing agents.

**Hazardous Decomposition Products:** Upon burning, oxides of carbon and silicon.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** None known.

**Section VI.**

**HEALTH HAZARD DATA**

**Primary Routes of Entry:** Eye and skin contact, inhalation.

**Acute Health Hazards:**

**Ingestion:** May cause gastrointestinal discomfort.

**Inhalation:** At high levels of exposure, arrhythmia may occur.

**Skin Contact:** May cause irritation.

**Eye Contact:** May cause irritation.

**Chronic Health Hazards:** Repeated and/or prolonged exposure may result in adverse eye effects and adverse skin effects.

**Carcinogenicity:** NTP: No IARC: No OSHA: No

**Symptoms of Overexposure:** Initial overexposure would probably be by inhalation resulting in irritation to respiratory system.

**Medical Conditions Aggravated by Exposure:** Eye disease and skin disorders.

**First Aid Procedures:**

**Ingestion:** DO NOT INDUCE VOMITING. Seek immediate medical attention.

**Skin Contact:** Wash thoroughly with soap and water. Wash contaminated clothes thoroughly before reusing.

**Inhalation:** Remove to fresh air. Give oxygen or artificial respiration as needed. Seek medical attention.

**Eye Contact:** Immediately flush eyes with flowing water for at least 15 minutes. Seek medical attention.

**Note to physician:** Do not give epinephrine (adrenaline).

**Section VII.****H.M.I.S. RATING**

Health	2
Flammability	1
Reactivity	0
Personal Protection	-

**Section VIII.****PRECAUTIONS FOR HANDLING AND USE**

**Steps to Be Taken in Case Materials are Spilled:** For large spills, responding personnel must use self-contained breathing apparatus. Evacuate area, stop leak, dam spill, and transfer liquid into a suitable container. Collect residue with absorbent and transfer into a suitable container for proper disposal.

**Waste Disposal Method:** Dispose of in accordance with all applicable local, state, and Federal regulations.

**Handling/Storage:** Store in cool dry location. Keep container tightly closed. Avoid breathing vapors. Open drums carefully in the event of pressure build up.

**Other Precautions:** Keep away from heat, sparks, and open flame.

**Section IX.****CONTROL MEASURES**

**Respiratory Protection:** None required if adequate ventilation is provided.

**Ventilation:** General mechanical ventilation.

**Skin Protection:** Butyl, nitrile or rubber latex gloves.

**Eye Protection:** Safety glasses with side shields or chemical goggles if there is a potential for splashing.

**Other Protection:** Depending on conditions of use, additional protection such as aprons and arm covers may be needed. Eye wash station and safety shower should be near.

**Work/Hygienic Practices:** Wash thoroughly after using.

**Section X.****REGULATORY INFORMATION****TOXIC SUBSTANCES CONTROL ACT (TSCA):**

The ingredients of this product are on the TSCA inventory.

**SARA TITLE III INFORMATION:****Section 311/312 - Reportable Materials:**

Alkyl Phosphate	- An immediate health hazard.
Amine Catalyst	- An immediate health and fire hazard.
Diethylene Glycol	- An immediate and delayed health hazard.
HFC-245fa	- An immediate health hazard. A sudden pressure release hazard.
Polysiloxane Surfactant	- A fire hazard.

**Section 313 - Supplier Notification:**

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>PERCENT BY WEIGHT</u>
None		

This information must be included in all MSDS's that are copied and distributed for this material.

**STATE RIGHT-TO-KNOW****CALIFORNIA PROPOSITION 65 INFORMATION:**

This product contains detectable amounts of a chemical known to the state of California to cause cancer, birth defects, or other reproductive harm. (California Health and Safety Code Section 25249.6).

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