



CARPENTER CO.

Section VI.

## HEALTH HAZARD DATA

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Section I.

MATERIAL SAFETY DATA SHEET  
GENERAL INFORMATION HMIS

**Product Name:** (B) RESIN  
**Manufacturer's Name:** Richfill 101-2712  
 Carpenter Co.-Chemical Systems Division  
 5016 Monument Avenue  
 Richmond, Virginia 23230  
**Information Telephone:** Carpenter Co.-Chemical Systems Division (804)233-0606  
**Emergency Telephone:** Chemtrec (800)424-9300  
**Preparation Date:** November 30, 1994

Section II.

## HAZARDOUS INGREDIENTS

Chemical Name	Exposure Limits in Air	
	OSHA (PEL)	ACGIH (TLV)
Polyalkyleneoxidemethyl siloxane copolymer (trade secret)	Not Est.	Not Est.
1,1-Dichloro-1-fluoroethane	500ppm, TWA (MEG's recommendation)	
Diethylene glycol	Not Est.	Not Est.
Tertiary amines (Trade secret)	Not Est.	Not Est.

Section III. PHYSICAL CHEMICAL CHARACTERISTICS

<b>Boiling Point (°C):</b> N.Av.	<b>Specific Gravity:</b> 1.12 (H <sub>2</sub> O=1)
<b>Vapor Pressure:</b> N.Av. (mm Hg, @ 25°C)	<b>Melting Point °C:</b> N.Av.
<b>Vapor density:</b> >1 (air=1)	<b>Evaporation Rate:</b> <1 (butyl acetate = 1)
<b>Solubility in H<sub>2</sub>O:</b> Slight.	
<b>Appearance and Odor:</b> Light yellow liquid, faint odor.	

Section IV. FIRE AND EXPLOSION HAZARD DATA

**Flash point (°F):** N.Av.      **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 positive pressure self-contained breathing apparatus, and protective clothing.  
 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:** High temperatures, exposure to copper and brass, open flames.  
**Incompatibility:** Oxidizing agents, alkali or alkaline earth metals, strong acids.  
**Hazardous Decomposition Products:** Upon burning, oxides of carbon, silicon, phosphorus, and nitrogen, and ammonia, hydrochloric and hydrofluoric acids.  
**Hazardous Polymerization:** Will not occur.      **Conditions to Avoid:** None.  
 ERC-447

**Primary Routes of Entry:** Eye and Skin contact, Inhalation.  
**Acute Health Hazards:**

**Ingestion:** Not expected to be highly toxic by ingestion; see First Aid section. May cause diarrhea and lethargy.  
**Inhalation:** Vapor is heavier than air; can cause suffocation by oxygen depletion. Breathing high concentrations can cause lightheadedness, narcosis, unconsciousness, or even death; cardiac irregularities have been observed.  
**Skin Contact:** Can be irritating to skin. Continued contact can cause defatting and dermatitis.  
**Eye Contact:** Can cause severe irritation.

**Chronic Health Hazards:** Repeated contact can cause defatting of skin and dermatitis, and sensitization reactions.

**Carcinogenicity:** NTP: No      IARC: No      OSHA: No  
**Symptoms of Overexposure:** Initial overexposure would probably be by inhalation resulting in irritation to respiratory system, lightheadedness and narcosis.  
**Medical Conditions Aggravated by Exposure:** Persons with pre-existing skin disorders may be more susceptible to dermatitis.

**First Aid Procedures:**

**Ingestion:** Do not induce vomiting; call a physician.  
**Skin Contact:** Wash thoroughly with soap and water. Wash contaminated clothes thoroughly before reusing.  
**Inhalation:** Remove to fresh air; call a physician. Give oxygen or artificial respiration as needed.  
**Eye Contact:** Immediately flush eyes with flowing water for at least 15 minutes. Call a physician.  
**Note to physician:** Because of increased risk of eliciting cardiac dysrhythmias, catecholamine drugs, such as epinephrine, should be considered only as a last resort.

Section VII.

## PRECAUTIONS FOR HANDLING AND USE

**Steps to be taken in Case Material is Spilled:** Responding personnel must use self-contained breathing apparatus. Evacuate area, stop leak, dam spill, and collect material on absorbent. Transfer to open containers and remove outdoors.  
**Waste Disposal Method:** Dispose of materials 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 VIII.

## CONTROL MEASURES

**Respiratory Protection:** Proper ventilation is usually sufficient to keep airborne concentrations below TLV/PEL. However if concentration exceeds TLV/PEL use NIOSH approved air respirator.  
**Ventilation:** Local.  
**Skin Protection:** Butyl, nitrile, or rubber latex gloves.  
**Eye Protection:** Use appropriate eye protection such as safety glasses with side shields. Chemical goggles are recommended if there is a possibility of splashing.  
**Other Protection:** Depending on conditions of use, additional protections such as aprons and arm covers may be needed. Eyewash stations and safety shower should be near.  
**Work/Hygiene Practices:** Wash thoroughly after using.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The ingredients of this product are on the TSCA inventory.

HAZARD TITLE III INFORMATION:

Section 311/312 - Reportable Materials:

1,1-Dichloro-1-fluoroethane - An immediate health hazard.  
Polyalkyleneoxidemethylsiloxane Copolymer - A fire hazard.  
Diethylene Glycol - An immediate health hazard.  
Tertiary Amines - An immediate health 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>
1717-00-6	1,1-Dichloro-1-fluoroethane	16.0

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).

The data in this Material Safety Data Sheet is offered for your consideration, investigation and verification. The data is presented in good faith and was obtained from sources Carpenter believes to be reliable. Carpenter, however, makes no representation as to the completeness or accuracy. Carpenter makes no warranty, expressed or implied, with respect to the data contained herein.

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