

**GC Electronics**  
1801 Morgan Street  
Rockford, IL 61102  
Phone: (815) 968-9661  
Fax: (815) 968-9731  
www.gcelectronics.com

**Product Name: High Voltage Putty**  
MSDS Number: 207  
Revision Date: 3/15/07  
Supersedes Date: 1/26/01

## MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: Specialty Chemicals  
Product Name: **High Voltage Putty**  
Part Number(s): **10-8880**  
**10-8882**

**Emergency Contact: Chemtrec**  
**Phone (24 hours): (800) 424-9300**

### Section 1 - Identification of Product

NFPA/HMIS Classification: Least 0  
Slight 1  
Health 1 Moderate 2  
Flammability 0 High 3  
Reactivity 0 Extreme 4  
Gloves, Safety Glasses B

Chemical Family: Silicone Rubber  
Formula: Mixture

### Section 2 - Hazardous Ingredients

#### Emergency Overview

Caution! May cause eye irritation. May generate formaldehyde at temperatures greater than 150°C (300°F). See Section 3 of MSDS for details.

Hazardous Component: None Found

#### Non-Hazardous

	CAS #	Approx. Wt. %
Vinyl/Stopped Polydimethylsiloxane	68083-18-1	60 – 90%
Treated Fumed Silica	68583-49-3	10 – 30%
Dimethylpolsiloxane	70131-67-8	1 – 5%

#### Exposure Limits in Air:

Exposure limits for formaldehyde, a byproduct of the oxidative thermal decomposition of dimethylpolysiloxane, are listed below.

<u>Chemical Name</u>	<u>OSHA(TWA)</u>	<u>OSHA(STEL)</u>	<u>ACGIH(TWA)</u>	<u>ACGIH(STEL)</u>
Formaldehyde	0.75 ppm	2.0ppm	0.3 ppm	N/A
		0.37 mg/m <sup>3</sup> (ceiling)		

Absence of values indicates none found.

PEL-OSHA Permissible Limit, TLV-ACGIH Threshold Limit Values; TWA – Time Weighted Average

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OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11<sup>th</sup> Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150°C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.

Warning: This product, as sold, does not meet the OSHA definition of a hazardous material.

### Section 3 - Physical Data

Boiling Point:	NA (F)	NA (C )
Freezing Point:	NA (F)	NA (C )
Specific Gravity (H2O=1):	1.1	
Vapor Pressure (mm Hg):		
% Volatile by Volume	<1%	
Melting Point	NA (F)	NA (C )
Vapor Density (Air=1):	Neg.	
Density (KG/M3):	1,100	
Solubility in Water (20C):	Insoluble	
Appearance and Odor:	Physical State - Solid	
	Odor – None/Slight	
	Color - Translucent	
Acid/Alkalinity (MEQ/G)	Unknown	
Solubility in Organic Solvent	Unknown	

### Section 4 - Fire & Explosion Hazard Data

Flash Point (Method Used) (COC):	315.5°C	600°F
Flammable Limits in Air (%):	Lower - N/A	Upper - N/A
Extinguishing Media:	All standard extinguishing agents are suitable.	
Special Fire Fighting Procedures:	Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.	
Sensitivity to Mechanical Impact (Y/N)	No	
Sensitivity to Static Discharge:	Sensitivity to static discharge not expected.	

### Section 5 - Health Hazard Data

Routes of Entry	
Inhalation:	None known
Skin:	Plant experience has shown that skin hazard is not applicable in this form.
Ingestion:	None known.
Eye Contact:	May cause mild eye irritation.
Routes of Exposure:	None known.

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**Health Hazards (Acute and Chronic)**

Medical Conditions Aggravated: Not Known  
 Sub Chronic (Target Organ Effects): None Known.

Carcinogenicity  
 NTP: This product or one of its ingredients present 0.1% or more is not listed as a carcinogen or suspected carcinogen.

IARC Monographs: This product or one of its ingredients present 0.1% or more is not listed as a carcinogen or suspected carcinogen.

OSHA Regulated: This product or one of its ingredients present 0.1% or more is not listed as a carcinogen or suspected carcinogen.

Exposure Limits in Air: Exposure limits for formaldehyde, a byproduct of the oxidative thermal decomposition of dimethylpolysiloxane, are listed below.

<u>Chemical Name</u>	<u>OSHA(TWA)</u>	<u>OSHA(STEL)</u>	<u>ACGIH(TWA)</u>	<u>ACGIH(STEL)</u>
Formaldehyde	0.75 ppm	2.0ppm 0.37 mg/m3 (ceiling)	0.3 ppm	N/A

Warning: This product, as sold, does not meet the OSHA definition of a hazardous material. This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300°C (150°F) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.

**First Aid Procedure**

Ingestion: Do not induce vomiting. If victim is conscious, give 2-4 glasses of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Skin: Wash with soap and water after handling.

Inhalation: Move person to fresh air. Seek medical attention if symptoms of exposure develop.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

**Product information****Toxicity:**

Acute Oral: Unknown

Acute Dermal: Unknown

Acute Inhalation: Unknown

Other: None

Principal Route of Exposure: None known

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. No specific information found.

### Section 6 - Reactivity Data

Stability:	Stable
Conditions to Avoid:	Avoid open flame.
Incompatibility (Materials to Avoid):	None Known
Hazardous Decomposition Or Byproducts:	Carbon Monoxide; Carbon Dioxide; Silicon Dioxide/Formaldehyde (see warning - Section 2)
Hazardous Polymerization:	Will not occur.

### Section 7 - Spill or Leak Procedures

Steps to be Taken in Case Material Is Released or Spilled:	Wipe, scrape, or soak up in an inert material and put in container for disposal Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.
Waste Disposal Method:	Disposal should be made in accordance with federal, state, and local regulations.

### Section 8 - Special Protection Information

Engineering Controls:	Eyewash stations; exhaust ventilation
Respiratory Protection:	If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).
Ventilation:	Local Exhaust. Type - mechanical (general) Adequate ventilation should be provided.
Protective gloves:	Cloth gloves
Eye and face:	Safety glasses
Other Protective Equipment:	Wear suitable protective clothing and eye/face protection

### Section 9 - Special Precautions

Precautions to be Taken in Handling And Storage:	Curing releases vapors which may be harmful. Use only in well-ventilated areas. Avoid contact with eyes. Keep away from children. Store away from heat, sources of ignition, and incompatibles. Avoid direct or prolonged contact with skin and eyes. Wash hands thoroughly after handling. Do not rub eyes with soiled hands. Do not eat, drink or smoke in work area.
Other Precautions:	Exhaust Ventilation: Localized ventilation should be used.

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### Section 10 - Regulatory Information

Warning: This product, as sold, does not meet the OSHA definition of a hazardous material. This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300°C (150°F) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.

#### Shipping and Regulatory Classification Data

IMO INDG Code:	Not regulated for ocean transportation		
Dot Shipping Name:	None	OSHA Hazard Class:	None
Dot Hazard Class:	Not regulated	CPSC Class:	None
Dot Labels:	None	Transport Class:	None
UN/NA Number:	None	RID (OCTI):	None
Placards:	None	AIR (ECE):	None
Export:	N/A	RAR (IATA):	None
EPA Hazard Waste	None		
Exposure Limits in Air:	Exposure limits for formaldehyde, a byproduct of the oxidative thermal decomposition of dimethylpolysiloxane, are listed below.		

<u>Chemical Name</u>	<u>OSHA(TWA)</u>	<u>OSHA(STEL)</u>	<u>ACGIH(TWA)</u>	<u>ACGIH(STEL)</u>
Formaldehyde	0.75 ppm	2.0ppm 0.37 mg/m <sup>3</sup> (ceiling)	0.3 ppm	N/A

SARA Section 302:	None Found
SARA (311,312) Hazard Class:	None
SATA (313) Chemicals:	None
CPSC Classification:	None
WHMIS Hazard Class	Non-controlled
WHMIS Trade Secret:	None

Export:	
Schdle B/Htsus:	3910.0 Silicones in Primary Form
ECCN:	EAR99

California Proposition 65:	This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. 71-43-2, Benzene. 108-88-3, Toluene.
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<b>Disclaimer</b>
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