

GC Electronics
1801 Morgan Street
Rockford, IL 61102
Phone: (815) 968-9661
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Product Name: High Voltage Putty
MSDS Number: 207
Revision Date: 11/02/11
Supersedes Date: 3/15/07

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

Chemical Family: Silicone Rubber
Formula: Mixture

NFPA/HMIS Classification:

Health	0	Least	
Flammability	0	Slight	1
Reactivity	0	Moderate	2
		High	3
		Extreme	4
		Gloves, Safety Glasses	B

Section 2 - Hazardous Ingredients

<u>Components</u>	<u>CAS #</u>	<u>Approx. Wt. - %</u>
Vinyl Stopped Polydimethylsiloxane	68083-18-1	60 – 90%
Treated Fumed Silica	68583-49-3	10 – 30%
Dimethylpolysiloxane	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.

Emergency Overview (Warning Statement):

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

This product contains dimethylpolysiloxane which can generate formaldehyde as a by product of oxidative thermal decomposition beginning at approximately 300° F.

Exposure to formaldehyde can cause adverse effects such as skin and respiratory sensitization and eye and throat irritation. Formaldehyde is a potential cancer hazard

Use good industrial hygiene practices to evaluate and control exposure to formaldehyde when warranted by conditions of use.

<u>Chemical Name</u>	<u>OSHA(TWA)</u>	<u>OSHA(STEL)</u>	<u>ACGIH(TWA)</u>	<u>ACGIH(STEL)</u>
Formaldehyde	N/A	N/A	N/A	N/A

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

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

Section 3 - Physical Data

Boiling Point:	N/A (F)	N/A (C)
Freezing Point:	N/A (F)	N/A (C)
Specific Gravity (H2O=1):	1.1	
Vapor Pressure (mm Hg):	Negative	
% Volatile by Volume	N/A	
Melting Point	N/A (F)	N/A (C)
Vapor Density (Air=1):	Neg.	
Density:	KG/M3	
Solubility in Water (20C):	Insoluble	
Appearance and Odor:	Physical State - Solid Rubber	
	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):	N/A
Flammable Limits in Air (%):	Lower - N/A Upper - N/A
Extinguishing Media:	All standard firefighting media.
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:	May be irritating to nose and throat.
Skin:	May be irritating to skin.
Ingestion:	None known.
Eye Contact:	May cause mild eye irritation.
Routes of Exposure:	None known.
Health Hazards (Acute and Chronic)	
Medical Conditions Aggravated:	Not Known
Sub Chronic (Target Organ Effects):	None Known.
Carcinogenicity	
NTP:	N/A.
IARC Monographs:	N/A
OSHA Regulated:	N/A

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Use good industrial hygiene practices to evaluate and control exposure to formaldehyde when warranted by conditions of use.

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: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

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 LD50: Unknown MG/KG
 Acute Dermal LD50: Unknown MG/KG
 Acute Inhalation LC50: 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): Strong acids, strong bases, strong oxidizing materials.

Hazardous Decomposition Or Byproducts: Carbon Monoxide; Carbon Dioxide; Silicon Dioxide/Formaldehyde (see warning - Section 2)

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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 (none required)

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: Store at room temperature.
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 dimethylpolysiloxanes 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	ADR (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		

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Formaldehyde	N/A	N/A	N/A	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

Disclaimer

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