



3100 N.W. 36th Street  
Miami, FL, 33142  
PH: (833) 423-0432  
www.gcelectronics.com

SDS Number: 207  
Revision Date: 3/10/2023  
Supersedes Date: 9/02/2015

## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: HIGH VOLTAGE PUTTY**

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

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

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

### SECTION 2. HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

**Classification (GHS):**

Not a hazardous substance or mixture.

**2.2 Label elements**

**Labelling (GHS):**

No labeling according to GHS required.

**Reportable ingredients for labelling:**

Polydimethyl methylvinyl siloxane

Silazane treated Silica

Silica, amorphous, fumed

Polydimethyl siloxane diol

**2.3 Other hazards**

No data available

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Chemical characterization (preparation)**

**Chemical Characteristics**

Polydimethylsiloxane with vinyl groups and auxiliary

**3.2 Information on ingredients:**

This material does not contain any hazardous ingredients.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in Section 2 are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.



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#### SECTION 4. FIRST AID MEASURES

**4.1 General Information:**

Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

**4.2 After inhalation**

Material cannot be inhaled under normal conditions. No special measures required.

**4.3 After contact with the skin**

For skin contact: Wipe off excess material with cloth or paper. Use a waterless hand cleaner if much of the remaining material as possible. Wash with soap and water.

**4.4 After contact with the eyes**

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

**4.5 After swallowing**

After swallowing No special treatment is required.

**4.6 Advice for the physician**

Treat symptomatically.

#### SECTION 5. FIREFIGHTING MEASURES

**5.1 Flammable properties:**

Property: Value: Method:

Flash point.....: > 200 °C (> 392 °F) (DIN 51376)

Boiling point / boiling range .....: not applicable

Lower explosion limit (LEL) .....: not applicable

Upper explosion limit (UEL).....: not applicable

Ignition temperature .....: > 400 °C (> 752 °F) (DIN 51794)

**5.2 Fire and explosion hazards:**

This material does not present any unusual fire or explosion hazards.

**5.3 Recommended extinguishing media:**

water-spray, dry chemical , alcohol-resistant foam , carbon dioxide , sand .

**5.4 Unsuitable extinguishing media:**

water jet

**5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

Hazardous decomposition products: carbon dioxide, carbon monoxide, formaldehyde, silicon dioxide and incompletely burnt hydrocarbons.

**5.6 Firefighting procedures:**

Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Cool endangered containers with water.



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### SECTION 6. ACCIDENTAL RELEASE MEASURES

**6.1 Precautions:**

No special measures required.

**HAZWOPER PPE Level:** D

**6.2 Containment:**

Prevent material from entering sewers or surface waters.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

**6.3 Methods for cleaning up**

Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

### SECTION 7. HANDLING AND STORAGE

**7.1 Handling**

**Precautions for safe handling:**

No special protective measures required.

**Precautions against fire and explosion:**

No special precautions against fire and explosion required.

**7.2 Storage**

**Conditions for storage rooms and vessels:**

none known

**Advice for storage of incompatible materials:**

not applicable

**Further information for storage:**

Keep container tightly closed. Store in a dry and cool place.



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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Engineering controls**

**Ventilation:**  
 Use with adequate ventilation.

**Local exhaust:**  
 not necessary

**8.2 Associate substances with specific control parameters such as limit values**  
 none known .

**8.3 Personal protection equipment (PPE)**

**Respiratory protection:**  
 Respiratory protection is not normally required.

**Hand protection:**  
 Any liquid-tight rubber or vinyl gloves.

**Eye protection:**  
 Safety glasses with side shields or chemical safety goggles.

**Other protective clothing or equipment:**  
 Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

**8.4 General hygiene and protection measures:**

Avoid contact with eyes, skin and clothing. When handling do not eat, drink, smoke or apply cosmetics.  
 Follow standard industrial hygiene practices when using this material. Wash thoroughly after handling.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Appearance**

Physical state / form	paste
Colour	transparent
Odour	slight

**9.2 Safety parameters**

Property:	Value:	Method:
Melting point / melting range	not applicable	
Boiling point / boiling range	not applicable	
Flash point	> 200 °C (> 392 °F)	(DIN 51376)
Ignition temperature	> 400 °C (> 752 °F)	(DIN 51794)
Lower explosion limit (LEL)	not applicable	
Upper explosion limit (UEL)	not applicable	
Vapour pressure	not applicable	
Density	approx. 1.12 g/cm³ at 20 °C (68 °F)	(ISO 1183-1 A)
Water solubility / miscibility	virtually insoluble	
pH-Value	not applicable	
Viscosity (dynamic)	> 9000000 mPa.s	

**9.3 Further information**

Thermal decomposition > 250 °C (> 482 °F)



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#### SECTION 10. STABILITY AND REACTIVITY

**10.1 General information:**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

**10.2 Conditions to avoid**

none known

**10.3 Materials to avoid**

none known

**10.4 Hazardous decomposition products**

If stored and handled properly: none known. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

**10.5 Further information:**

Hazardous polymerization cannot occur.

#### SECTION 11. TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects**

Toxicological testing has not been conducted with this material. The toxicology information listed below is based on the components and/or a byproduct of the material.

**11.1.1 Acute toxicity**

**Assessment:**

Based on the available data acute toxic effects are not expected after single oral exposure. Based on the available data acute toxic effects are not expected after single dermal exposure.

**Product details:**

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD50: > 2000 mg/kg	rat	Conclusion by analogy
dermal	LD50: > 2000 mg/kg	rat	Conclusion by analogy

**11.1.2 Skin corrosion/irritation**

**Assessment:**

Based on the available data a clinically relevant skin irritation hazard is not expected.

**Product details:**

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy

**11.1.3 Serious eye damage / eye irritation**

**Assessment:**

Based on the available data a clinically relevant eye irritation hazard is not expected.

**Product details:**

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy



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#### SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

##### 11.1.4 Respiratory or skin sensitization

**Assessment:**

Based on the available data a sensitization reaction is not expected from this product.

**Product details:**

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	guinea-pig; Bühler	Conclusion by analogy

##### 11.1.5 Germ cell mutagenicity

**Assessment:**

Based on known data a significant mutagenic potential may be excluded.

**Product details:**

Result/Effect	Species/Test system	Source
negative	mutation assay (in vitro) bacterial cells	Conclusion by Analogy OECD 471

##### 11.1.6 Carcinogenicity

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

##### 11.1.7 Reproductive toxicity

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

##### 11.1.8 Specific target organ toxicity (single exposure)

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

##### 11.1.9 Specific target organ toxicity (repeated exposure)

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

##### 11.1.10 Aspiration hazard

**Assessment:**

Based on the physical-chemical properties of the product no aspiration hazard must be expected.



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#### SECTION 12. ECOLOGICAL INFORMATION

##### 12.1 Toxicity

**Assessment:**

Evaluation in analogy to similar product. No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

##### 12.2 Persistence and degradability

**Assessment:**

Silicone content: biologically not degradable. Separation by sedimentation.

##### 12.3 Bio accumulative potential

**Assessment:**

Polymer component: No adverse effects expected.

##### 12.4 Mobility in soil

**Assessment:**

Insoluble in water. No adverse effects expected.

##### 12.5 Other adverse effects

none known

##### 12.6 Additional information

Easily separable from water by filtration.

#### SECTION 13. DISPOSAL CONSIDERATIONS

##### 13.1 Product disposal

**Recommendation:**

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations.

##### 13.2 Packaging disposal

**Recommendation:**

Containers should be completely emptied before recycling as specified in government regulations. Empty containers should be sent to an approved recycling facility.



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#### SECTION 14. TRANSPORT INFORMATION

- 14.1 **US DOT & CANADA TDG SURFACE**  
Valuation .....: Not regulated for transport
- 14.2 **Transport by sea IMDG-Code**  
Valuation .....: Not regulated for transport
- 14.3 **Air transport ICAO-TI/IATA-DGR**  
Valuation .....: Not regulated for transport

#### SECTION 15. REGULATORY INFORMATION

##### 15.1 U.S. Federal regulations

**TSCA inventory status and TSCA information:**

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

**TSCA 12(b) Export Notification:**

This material does not contain any TSCA 12(b) regulated chemicals.

**CERCLA Regulated Chemicals:**

This material does not contain any CERCLA regulated chemicals.

**SARA 302 EHS Chemicals:**

This material does not contain any SARA extremely hazardous substances.

**SARA 311/312 Hazard Class:**

This product does not present any SARA 311/312 hazards.

**SARA 313 Chemicals:**

This material does not contain any SARA 313 chemicals above de minimus levels.

**HAPS (Hazardous Air Pollutants):**

This material does not contain any hazardous air pollutants.

##### 15.2 U.S. State regulations

**California Proposition 65 Carcinogens:**

This material does not contain any chemicals known to the state of California to cause cancer.

**California Proposition 65 Reproductive Toxins:**

This material does not contain any chemicals known to the State of California to cause reproductive effects.

**Massachusetts Substance List:**

112945-52-5 Silica, amorphous, fumed

**New Jersey Right-to-Know Hazardous Substance List:**

112945-52-5 Silica, amorphous, fumed

**Pennsylvania Right-to-Know Hazardous Substance List:**

112945-52-5 Silica, amorphous, fumed





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#### SECTION 15. REGULATORY INFORMATION (CONTINUED)

##### 15.3 Canadian regulations

This product has been classified in accordance with the Hazard criteria of the CPR and the SDS contains all the information required by the CPR.

**WHMIS Hazard Classes:**  
None.

**DSL Status:**  
This material or its components are listed on the Canadian Domestic Substances List.

**Canadian Ingredient Disclosure List:**  
112945-52-5 Silica, amorphous, fumed

##### 15.4 Other international regulations

**Details of international registration status**  
Listed on or in accordance with the following inventories:  
EINECS - Europe  
ECL - Korea  
ENCS - Japan  
AICS - Australia  
IECSC - China  
DSL - Canada  
PICCS - Philippines  
TSCA - USA

#### SECTION 16. OTHER INFORMATION

##### 16.1 Additional information:

This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This SDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.



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### SECTION 16. OTHER INFORMATION (CONTINUED)

**16.2 Glossary of Terms:**

<b>ACGIH</b> - American Conference of Governmental Industrial Hygienists	<b>ppm</b> - Parts per Million
<b>DOT</b> - Department of Transportation	<b>SARA</b> - Superfund Amendments and Reauthorization Act
<b>hPa</b> - Hectopascals	<b>STEL</b> - Short Term Exposure Limit
<b>mPa*s</b> - Milli Pascal-Seconds	<b>TSCA</b> - Toxic Substances Control Act
<b>OSHA</b> - Occupational Safety and Health Administration	<b>TWA</b> - Time Weighted Average
<b>PEL</b> - Permissible Exposure Limit	<b>WHMIS</b> - Canadian Workplace Hazardous Materials Identification System

Flash point determination methods .....	Common name
ASTM D56.....	Tagliabue (Tag) closed cup
ASTM D92, DIN 51376, ISO 2592 .....	Cleveland open cup
ASTM D93, DIN 51758, ISO 2719 .....	Pensky-Martens closed cup
ASTM D3278, DIN 55680, ISO 3679 .....	Setaflash or Rapid closed cup
DIN 51755.....	Abel-Pensky closed cup

**16.3 Conversion table:**

Pressure:.....: 1 hPa \* 0.75 = 1 mm Hg = 1 torr; 1 bar = 1000 hPa  
 Viscosity: .....: 1 mPa\*s = 1 centipoise (cP)

### SECTION 17. DISCLAIMER

GC Electronics believes that the information contained herein is accurate and reliable as of the date of this material safety data sheet, but no representation guarantee or warranty, express or implied, is made as to the accuracy, reliability or completeness of the information. Persons receiving information are encouraged to make their own determination as to the information's suitability and completeness for their particular application. NO INFORMATION CONTAINED HEREIN CONSTITUTES A PRODUCT WARRANTY OF ANY KIND, WHETHER EXPRESS OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANT ABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.