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SDS Number: 207
Revision Date: 9/02/2015
Supersedes Date: 1/22/2014

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 t
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

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. ECOLOGICAL 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:

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

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