



# MATERIAL SAFETY DATA

## CSL 890 Sprayable High Voltage Insulator Compound

Reviewed April 8, 2010

MSDS NO. 302

### I PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME</b>	CSL 890 Sprayable High Voltage Insulator Compound
<b>CHEMICAL NAME</b>	Not Applicable
<b>CHEMICAL FORMULA</b>	Silicone Compound
<b>MOLECULAR WEIGHT</b>	Polymer
<b>MATERIAL USES</b>	Silicone Compound is designed for maintenance of High Voltage Insulators.
<b>MANUFACTURER</b>	CSL Silicones Inc. 144 Woodlawn Road West Guelph, ON N1H 1B5 Canada
<b>TELEPHONE</b>	1-519-836-9044
<b>FAX</b>	1-519-836-9069
<b>EMERGENCY TELEPHONE</b>	1-519-836-9044

### II HAZARDS IDENTIFICATION

#### A. HAZARDOUS INGREDIENTS OF MATERIAL

Hydrocarbon Terpene Blend is used as diluent and released in the air during drying. Hydrocarbon Terpene blend is combustible liquid. Remove all sources of ignition.

#### B. EFFECTS OF CHRONIC EXPOSURE

<b>Health Effects</b>	Pulmonary Edema, Dermatitis
<b>Toxicological Data</b>	LD50 not established.
<b>Carcinogenicity Data</b>	The ingredients of this product are not listed as carcinogens by National Toxicology Program, and have not been evaluated by the International Agency for Research on Cancer or the American Conference of Government Industrial Hygienists.
<b>Reproductive Data</b>	Octamethylcyclotetrasiloxane (in concentration of 500 to 700 ppm) has shown reproductive effects in laboratory animals. No available information of adverse reproductive effects of other ingredients of this product.
<b>Mutagenicity Data</b>	No information available and no adverse mutagenic effects are anticipated
<b>Teratogenicity Data</b>	No information available and no adverse teratogenic effects are anticipated
<b>Synergistic Products</b>	None Known
<b>Delayed Effects</b>	None Known

#### C. EFFECTS OF ACUTE EXPOSURE

<b>Inhalation</b>	Aspiration into lungs may cause injury. Excessive inhalation of vapors may cause dizziness or headache. This product has a low vapor pressure and is not expected to present an inhalation hazard.
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Caution should be taken to prevent aerosolization or misting without taking specific precautions.

**Eyes** Exposure to high concentration of vapor may cause irritation.

**Skin** Prolonged or repeated exposure may cause skin irritation. Repeated long-term contact may cause excessive drying or flaking of skin.

**Ingestion** Can cause gastrointestinal irritation, nausea and vomiting.

**D. HAZARD SYMBOLS**



Flammable Liquid and vapours



Harmful if swallowed

**III COMPOSITION/INFORMATION ON INGREDIENTS**

MATERIAL	%	CAS NUMBER	ACGIH TLV	LD50
Amorphous Silica	2-7	112945-52-5	10 mg/m <sup>3</sup>	>5000 mg/kg oral/rat
Hydrocarbon Terpene Blend	10-50	64742-47-8	100ppm	5.6– 6.6 g/kg oral/mouse >5000 mg/kg dermal/rabbit
Triethylene Glycol	0.1-2	112-27-6	Not Established	17 mg/kg oral/rat
Boric Acid	0.1-2	10043-35-3	Not Established	2660 mg/kg oral/rat
Octamethylcyclo-Tetrasiloxane	0.1-2	556-67-2	10 ppm	2000 mg/kg oral/rat 36 mg/L inhal/ rat 4 hrs

**IV FIRST AID MEASURES**

**Inhalation** Remove to fresh air. If breathing difficult, give oxygen. Call physician.

**Eye Contact** Irrigate immediately with water for at least 15 minutes, call physician.

**Skin Contact** Wash off in flowing water or shower using soap and water remove contaminated clothing and wash before reuse.

**Ingestion** Do not induce vomiting. Product contains hydrocarbon, call physician.

**First Aid** Provide general supportive measures (comfort, warmth, rest). Consult a physician and/or the nearest Poison Control Center for all exposures except minor instances of inhalation or skin contact.

**V FIRE FIGHTING MEASURES**

**A. FIRE AND EXPLOSION DATA**

**Flash Point** 63° C. P.M.C.C. ASTM D-93

**Lower Explosive Limit %** 0.7

**Upper Explosive Limit %** 7

**Autoignition Temperature** No Data

**Fire Extinguishing Agents** Dry Chemical, CO2, Water Spray, Chemical Foam

**Unusual Fire/ Explosion Hazard** In extreme fire conditions, this material may present a floating fire hazard

**Hazardous Combustion Products**

**Carbon Dioxide, Carbon Monoxide,  
Silicon Dioxide, Formaldehyde**

**B. FIRE FIGHTING PROCEDURES**

Wear a Self Contained Breathing Apparatus (SCBA) which provides eye protection and which NIOSH approved. Don't spray a solid stream of water or foam directly into a pool of hot, burning liquid as this may cause frothing, and may intensify the fire.

**VI ACCIDENTAL RELEASE MEASURES**

**Spill and Leak Procedure**                      **Restrict access to area of spill. Provide ventilation and protective clothing if needed. Contain spill. Recover material for recycling or disposal.**

**Waste Disposal**                                      **Review environmental regulations for disposal. Silicone wastes can often be incinerated in approved facilities. Solid waste may be sent to a designated landfill site.**

**VII HANDLING AND STORAGE**

**Storage Conditions**                              **Normal precautions common to good manufacturing practice should be followed in storage.**

**Handling Procedure**                              **No special measures indicated for this product.**

**VIII EXPOSURE CONTROL AND PERSONAL PROTECTION**

Hydrocarbon Terpene Blend is used as diluent and released in the air during drying and curing process.

**EXPOSURE LIMIT**

Component	OSHA PEL	ACGIH TLV	Other Limits
Hydrocarbon Terpene	None	100 ppm	100 ppm (Recommended Exposure Level)

**PERSONAL PROTECTIVE EQUIPMENT**

**Respiratory Protection**                              **Not required for normal use. If vapor mist is generated, use a NIOSH certified organic vapor respirator with a dust and mist filter.**

**Eye/Face Protection**                              **Safety glasses are recommended**

**Skin Protection**                                      **Nitrile gloves are recommended.**

**Ventilation Requirements**                              **Use with adequate ventilation.**

**IX PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	<b>Viscous Liquid</b>
<b>Odour</b>	<b>Citrus Odour</b>
<b>Odour Threshold</b>	<b>Not Applicable</b>
<b>pH</b>	<b>Not determined</b>
<b>Boiling Point (°C)</b>	<b>Not Applicable</b>
<b>Freezing Point (°C)</b>	<b>Not Applicable</b>
<b>Vapor Pressure (mm Hg)</b>	<b>Negligible @ 25°C.</b>
<b>Vapor Density (Air = 1)</b>	<b>Not Applicable</b>
<b>VOC Concentration</b>	<b>388.5 g/L (3.24 lb/gallon)</b>
<b>Specific Gravity (Water = 1)</b>	<b>1.11</b>
<b>Solubility in Water</b>	<b>Insoluble</b>
<b>Solubility in Other Solvents</b>	<b>Soluble in Most Organic Solvents</b>



TSCA Status	All ingredients of this product are listed on TSCA Inventory of Chemicals.
State of California Safe Drinking Water And Toxic Enforcement Act 1986 (Proposition 65)	None of the ingredients of this product is listed on Proposition 65 list issued on December 2006.
Canadian DSL Status	All ingredients of this product are on the Canadian DSL.

## XVI OTHER INFORMATION

Date Issued	August 9, 2007
Date Revised	April 8, 2010
Prepared By	Farooq Ahmed, Research and Development Manager
Emergency Contact	Baz Mistry, Laboratory Manager or Farooq Ahmed, Research and Development Manager

## REFERENCES

1. American Conference of Governmental Industrial Hygienists Inc., Documentation of the Threshold Limit Values (TLV) and Biological Exposures Indices, 5th Edition, 1986, Cincinnati, OH.
2. National Institute for Occupational Safety and Health, Registry of Toxic Effects of Chemical Substances.
3. Sigma-Aldrich Corp., USA, The Sigma-Aldrich Library of Chemical Safety Data, 1985.
4. Sittig, M., handbook of Toxic and Hazardous Chemicals and Carcinogens, 2nd Edition, 1985, Park Ridge, NJ.
5. Canadian Center for Occupational Health and Safety, CHEMINFO, Record #15E, #26E.
6. Material Safety Data Sheets from Cabot Corporation, Wacker-Chemie GMBH, General Filtration, Dow Corning, Union Carbide, Hoechst Canada.
7. Canada's National Occupational Health & Safety Resources at [www.ccohs.ca/oshanswers/legisl/whmis](http://www.ccohs.ca/oshanswers/legisl/whmis)
8. Information from Health Canada Website at [www.hc-sc.gc.ca/ahc-asc/intactiv/ghs-sgh/index\\_e.html](http://www.hc-sc.gc.ca/ahc-asc/intactiv/ghs-sgh/index_e.html)
9. Information from United Nations Website at [www.unece.org/trans/danger/publi/ghs/ghs\\_rev01/01files\\_e.html](http://www.unece.org/trans/danger/publi/ghs/ghs_rev01/01files_e.html)
10. Information about RoHS (Restriction of Use of Certain Hazardous Substances in Electrical and Electronic Equipments) was obtained from Website at [www.rohs.gov.uk](http://www.rohs.gov.uk)
11. Information about State of California Safe Drinking Water and Toxic Enforcement Act 1986 (Proposition 65) was obtained from Website at [www.oehha.ca.gov/prop65.html](http://www.oehha.ca.gov/prop65.html)

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CSL SILICONES INC.  
144 Woodlawn Road West, Guelph, Ontario Canada N1H 1B5  
Telephone: (519) 836-9044 FAX: (519) 836-9069