



MATERIAL SAFETY DATA

CSL 880 High Voltage Insulator Compound

Reviewed April 8, 2010

MSDS NO. 301

I PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	CSL 880 High Voltage Insulator Compound
CHEMICAL NAME	Not Applicable
CHEMICAL FORMULA	Silicone Compound
MOLECULAR WEIGHT	Polymer
MATERIAL USES	Silicone Compound is designed for maintenance of High Voltage Insulators.
MANUFACTURER	CSL Silicones Inc. 144 Woodlawn Road West Guelph, ON N1H 1B5 Canada
TELEPHONE	1-519-836-9044
FAX	1-519-836-9069
EMERGENCY TELEPHONE	1-519-836-9044

II HAZARDS IDENTIFICATION

A. HAZARDOUS INGREDIENTS OF MATERIAL

None

B. EFFECTS OF CHRONIC EXPOSURE

Health Effects	Physiologically inert
Toxicological Data	Lethal dose not reported. Animal experiments by oral or dermal routes showed no toxic effects at any dose.
Carcinogenicity Data	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.
Reproductive Data	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 in this product
Mutagenicity Data	No information available and no adverse mutagenic effects are anticipated
Teratogenicity Data	No information available and no adverse teratogenic effects are anticipated
Synergistic Products	None Known

C. EFFECTS OF ACUTE EXPOSURE

Inhalation	No evidence of adverse effects from available information.
Eyes	No evidence of adverse effects from available information. Slight discomfort possible.

Skin No evidence of adverse effects from available information on skin contact or skin absorption.
Ingestion No evidence of adverse effects from available information.

III COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	%	CAS NUMBER	ACGIH TLV	LD50
Amorphous Silica	5-10	112945-52-5	10 mg/m ³	>5000 mg/kg oral/rat
Triethylene Glycol	1-5	112-27-6	Not Established	15000 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 No emergency care is anticipated.
Eye Contact Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes, by the clock, holding the eyelid(s) open. Obtain medical attention if symptoms persist.
Skin Contact Remove contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap. If symptoms persist, obtain medical attention. Contaminated clothing should be laundered before re-use.
Ingestion No emergency care is anticipated.
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	230 - 250° C. P.M.C.C. ASTM D-93
Lower Explosive Limit %	Not Applicable
Upper Explosive Limit %	Not Applicable
Autoignition Temperature	No Data
Fire Extinguishing Agents	Dry Chemical, CO ₂ , 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

Contains no volatile ingredients that require exposure control

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection Not required for normal use.

Eye/Face Protection Safety glasses

Skin Protection Protective gloves PVC coated.

Ventilation Requirements General (mechanical) room ventilation is expected to be satisfactory.

IX PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Thixotropic paste
Odour	Odourless
Odour Threshold	Not Applicable
pH	Not determined
Boiling Point (°C)	Not Applicable
Freezing Point (°C)	Not Applicable
Vapor Pressure (mm Hg)	Negligible @ 25°C.
Vapor Density (Air = 1)	Not Applicable
VOC Concentration	Not Applicable
Specific Gravity (Water = 1)	1.39
Solubility in Water	Insoluble
Solubility in Other Solvents	Soluble in Most Organic Solvents
Evaporation Rate	Not Applicable
Decomposition Temperature	Not determined

X STABILITY AND REACTIVITY

Product Stability	Stable
Hazardous Polymerization	Will not occur
Incompatible Materials	Chlorinated Rubber, Magnesium, Linseed Oil
Hazardous Decomposition Products	Combustion will produce silicon dioxide, carbon dioxide and carbon monoxide. A component of this product can generate formaldehyde at approximately 150°C (300°F) and above in the atmosphere containing oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential carcinogen.

XI TOXICOLOGICAL INFORMATION

Toxicological Data Lethal dose not reported. Animal experiments by oral or dermal routes showed no toxic effects at any dose.

Evidence of reproductive effects of Octamethylcyclotetrasiloxane in laboratory animals at concentrations of 500 and 700 ppm

XII ECOLOGICAL INFORMATION

No available information.

XIII DISPOSAL CONSIDERATION

Not classified as Hazardous Waste.

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

XIV TRANSPORT INFORMATION

TDG Information Not a regulated item.

XV REGULATORY INFORMATION

Risk Phrases None

Safety Phrases S41 In case fire do not breathe fumes.

WHMIS Classification Does not meet criteria

RoHS Statement CSL 880 High Voltage Insulator Compound does not contain Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium, Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) as listed in RoHS Directives.

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
8. Information from Health Canada Website at 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
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
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

The information contained herein has been prepared in good faith to comply with applicable federal and provincial (state) law(s). However, no warranty of any kind is given or implied and CSL Silicones Inc. will not be responsible for any damages, losses or injuries that may result from the use of any information contained here.

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