1801 Morgan Street Rockford, IL 61102 Phone: (815) 968-9661 Fax: (815) 968-9731 www.gcelectronics.com **Product Name: Silicone Rubber**

Chemtrec

(800) 424-9300

MSDS Number: 149 Revision Date: 2/3/2010 Supersedes Date: 8/22/06

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Emergency Contact:

Phone (24 hours):

Product Type: Sealant
Product Name: Silicone Rubber

Part Number(s): **10-150**

SD-151

Section 1 - Identification of Product

				Least	0
HMIS		NFPA		Slight	1
Health	2	Health	2	Moderate	2
Flammability	0	Flammability	0	High	3
Reactivity	0	Reactivity	0	Extreme	4
Personal Prote	ction B	Gloves, Safety	Glasses B		

Note: NFPA=National Fire Protection Association

Generic Description: Silicone Elastomer

Section 2 - Hazardous Ingredients

Component Name:	CAS#	Wt.%	Exposure Limits
Dimethyl Polsiloxane Silanol/S	St 70131-67-8	60-80	See comments below OSHA PEL: TWA 6 MG/M3 ACGIH TLV: TWA 10 MG/M3 Total Dust
Silica, amorphous	7631-86-9	10	
Dimethylpolysiloxane	63148-62-9	5-10	See comments below
Methyltriacetoxysilane	4253-34-3	1.0-5.0	See comments below
Ethyltriacetoxysilane	17689-77-9	1.0-5.0	See comments below

The above components are hazardous as defined in 29 CFR 1910.1200

Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL:TWA 10ppm and ACGIH TLV: TWA 10ppm, STEL 15ppm.

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Section 3 – Physical Data

Physical Form: Solid Color: Clear

Odor: Acetic acid-like (vinegar)

Specific Gravity (water = 1): 1.01

Melting Point:

Boiling Point (@ 760 MM HG):

Vapor Pressure @ 77°F/25° C):

Not applicable

Not applicable

Less than 5mm

Vapor Density (Air-1@77°F/25° C):

Solubility in Water @ 20°C:

Evaporation Rate (Butyl acetate = 1)

Volatile by volume:

VOC (EPA METH.24) (G/L):

Density (Kg/M³)

Solubility in Organic Solvent:

Not applicable

Insoluble

<1

31

1040

Toluene

Note: The above information is not intended for use in preparing product specifications.

Section 4 - Fire & Explosion Hazard Data

Flash Point: Not applicable Auto-ignition: Not determined

Flammability Limits in air: Lower: N/D Upper: N/D

Comments N.D.: Product is considered a solid for DOT purposes and flash point is not

applicable.

Extinguishing Media: Water fog, dry chemical, foam, CO₂.

Special Fire and Explosion Self contained breathing apparatus and protective clothing should be

Procedures: worn in fighting large fires involving chemicals.

Unusual Fire and Explosion

Hazards: None known

Products: Thermal breakdowns of this product during fire or very high heat

conditions may evolve the following hazardous decomposition

products: Silicon dioxide. Carbon dioxides and traces of incompletely

burned carbon compounds. Formaldehyde

Hazardous Decomposition

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Section 5 - Health Hazard Data

Acute Effects of Overexposure:

Eye: Avoid contact with eyes. Direct contact irritates slightly with redness and

swelling.

Skin: Contact with uncured product may irritate skin. A single short exposure (less

than 24 hours) may irritate. Repeated or prolonged contact (24 to 48 hours)

may cause irritation moderately.

Inhalation: Vapor overexposure may irritate eyes, nose and throat. Causes mild

respiratory irritation in uncured state.

Oral: Contact with uncured product will irritate lips, gums and tongue. Small

amounts transferred to the mouth by fingers during use, etc., should not injure.

Swallowing large amounts may cause digestive discomfort.

Comments: No injury from dusts should occur during reasonable use. If use creates

respirable particles, some respiratory system injury may occur. Cured sealant is

non-hazardous.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Overexposure to any chemical may result in enhancement of pre-existing adverse medical conditions and allergic reactions.

First Aid Measures:

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and

seek medical attention. Never give anything by mouth to an unconscious person.

Eye: Immediately flush with water for 15 minutes. Get medical attention.

Skin: Remove from skin with a dry cloth or paper towel and wash thoroughly with

soap and water or waterless cleanser. Get medical attention if irritation or other

ill effects develop or persist.

Inhalation: Remove to fresh air. Get medical attention if ill effects persist.

Note to physicians: None known.

Section 6 - Reactivity Data

Chemical Stability: Stabl

Hazardous thermal decomposition/ Hazardous polymerization will not occur.

Combustible products: Carbon monoxide, carbon dioxide, silicone dioxide, acetic acid, formaldehyde. Polymerization Conditions to Avoid: Not applicable

Materials to Avoid:

Oxidizing material can cause a reaction. Water, moisture or humid air can

cause hazardous vapors to form as described in Section 8.

Part Number(s):10-150, SD-151

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Section 7 - Spill or Leak Procedures

Container Clean up: Observe all personal protection equipment recommendations described in

Section 4 and 8. Wipe up or scrape up and contain for salvage or disposal. Clean areas as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning material appropriately, since spontaneous heating may occur. Local, state and federal regulations may apply to release and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable.

D.O.T. (49CFR 171.8)/E.P.A. (40 C.F.R.117) Spill Reporting Information

Hazardous Substances: None

Reportability Quantity:

Concentration of Hazardous Substance:

Reportable Quantity of Product:

Not applicable.

Not applicable.

Comments: Product contains no ingredients subject to D.O.T. or E..P.A.

CERCLA/SARA Environment release reporting regulations.

Note: See section 8 for Personal Protective Equipment for Spills.

Section 8 - Special Protection Information

Engineering controls: Eye-wash station. Use in well-ventilated area. Localized ventilation should be

used to control dust levels.

Personal Protective Equipment for

Routine Handling:

Eyes: Use proper protection-safety glasses as a minimum

Skin: Wash at mealtime and end of shifts. Contaminated clothing and shoes should

be removed as soon as practical and thoroughly cleaned before reuse. Chemical

protective gloves are recommended.

Suitable Gloves: Silver Shield (4) 4H (R).

Inhalation/Suitable Respirator: No respiratory protection should be needed.

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Person Protective Equipment for Spills:

Eyes: Use proper protection-safety glasses as a minimum

Skin*: Wash at mealtime and end of shifts. Contaminated clothing and shoes should

be removed as soon as practical and thoroughly cleaned before reuse. Chemical

protective (rubber or plastic) gloves are recommended.

Inhalation/Suitable respirator: Use respiratory protection unless local exhaust ventilation is adequate or air

sampling data show exposures are within TLV and PEL guidelines.

Ventilation: Local Exhaust: Recommended

Mechanical (General): Recommended

Suitable Respirator: Organic vapor type

Precautionary Measures: Avoid eye contact. Avoid skin contact. Use reasonable care.

Avoid breathing vapors and eye and skin contact. Use only with adequate

ventilation. Do not take internally.

Comments: Product forms acetic acid (HOAC) when exposed to water or humid air.

Provide ventilation during use to control HOAC within exposure guidelines or use respiratory protection. When heated to temperatures above 150°C (300°F) in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the

OSHA Permissible Exposure Limit for formaldehyde.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

*Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.

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Section 9 – Special Precautions

Precautions to be taken in Handling and

Storage:

Store below 90°F/32°C. Use with adequate ventilation. Product forms acetic acid (HOAC) when exposed to water or humid air (during application and curing). Provide ventilation during use to control HOAC exposure within 10ppm (current TLV) guidelines or use respiratory protection. Avoid eye contact. Caution: remove contact lenses before using this product. Do not handle lens until all sealant has been cleaned from the fingertips, nails and cuticles. Residual sealant may remain on fingers for several days and transfer to lenses and cause severe eye irritation. Avoid skin contact. Use reasonable care and store away from oxidizing materials. Keep container closed when not in use and store away from water or moisture.

Comments: Traces of formaldehyde (carcinogen) may form if heated in air above

300°F/149°C. Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Review the OSHA formaldehyde regulations for detailed information on safe handling

requirements.

Section 10 - Regulatory Information

DOT Road Shipment Information

(49 CFR 172.101): Not subject to DOT
Ocean Shipment (IMDG): Odor: Not subject to IMDG code

Air Shipment (IATA): Not subject to IATA regulations

Component Exposure Limit:

CAS# Component Exposure Limit

4253-34-3 Methyltriacetoxysilane See acetic acid comments 17689-77-9 Ethyltriacetoxysilane See acetic acid comments

Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10ppm and ACGIH TLV: TWA 10ppm, STEL 15ppm.

Engineering Controls

Local Ventilation: None should be needed

General Ventilation: Recommended

Traces of formaldehyde (carcinogen) may form if heated in air above 300°F/149°C.

Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures.

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Review the OSHA formaldehyde regulations for detailed information on safe handling requirements.

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the

TSCA inventory of Chemical Substances.

EPA SARA Title III Chemical Listings

Section 312 Hazard Class Immediate

Acute: Yes Chronic: No Fire: No Pressure: No Reactivity: No

Section 313 Toxic Chemicals:

None present or none present in regulated quantities.

Supplemental State Compliance Information

California:

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm: None known

	CAS Number	Wt%	Component Name
Massachusetts:	7631-86-9 7.0	13.0	Silica, amorphous
New Jersey:	70131-67-8	>60.0	Dimethyl siloxane, hydroxy-terminated
	7631-86-9 7.0	13.0	Silica, amorphous, fumed: #1655
	4253-34-3	1.0 - 5.0	Methyltriacetoxysilane
	17689-77-9	1.0 - 5.0	Ethyltriacetoxysilane
Pennsylvania:	70131-67-8	>60.0	Dimethyl siloxane, hydroxy-terminated
	7631-86-9	7.0-13.0	Silica, amorphous

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