

**GC Electronics**  
 1801 Morgan Street  
 Rockford, IL 61102  
 Phone: (815) 968-9661  
 Fax: (815) 968-9731  
 www.gcelectronics.com

**Product Name:Silicone Sealant/Adhesive**

MSDS Number:201  
 Revision Date:1/16/04  
 Supersedes Date: 1/11/01

## MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: Solvent Release Adhesive RTV  
 Product Name: **Silicone Sealant/Adhesive**  
 Part Number(s): **19-155**

**Emergency Contact: Chemtrec**  
**Phone (24 hours): (800) 424-9300**

### Section 1 - Identification of Product

NFPA		Least	0
Health	1	Slight	1
Flammability	1	Moderate	2
Reactivity	0	High	3
Personal Protection B		Extreme	4
		Gloves,safety glasses	B

Note: NFPA is National Fire Protection Association

Chemical Identification: Organopolysiloxane mixture

### Section 2 - Hazardous Ingredients

CAS#	Wt.%	Component	Exposure Limits
007631869	9	Silica, amorphous	Observe particulate limits. OSHA PEL: TWA 15mg/m <sup>3</sup> total dust, 5mg/m <sup>3</sup> respirable fraction. ACGIH TLV: TWA 10mg/m <sup>3</sup> inhalable particulate, 3mg/m <sup>3</sup> respirable particulate.
022984549	3	Methyl tri (ethylmethylketoxime) silane	See methyl ketoxime comments
083817725	1	Di (ethylmethylketoxime) Methoxymethyl silane	See ethylmethylketoxime and methyl alcohol comments
101371000	.5	Ethoxy tri (ethylmethylketoxime) silane	See ethyl alcohol and ethylmethylketoxime comments
093917750	.4	Diethoxy di (ethylmethylketoxime) silane	See ethyl alcohol and ethylmethylketoxime comments
000096297	.1	Methylethylketoxime	Vendor guide: TWA 3ppm, STEL 10ppm, AIHA WEEL: TWA 10ppm
034206401	.1	Tetra (methylethylketoxime) silane	See ethylmethylketoxime comments
101371011	.1	Triethoxy (ethylmethylketoxime) silane	See ethylmethylketoxime comments

Comments: Methylalcohol forms on contact with water or humid air. Provide adequate ventilation to control exposure within guidelines of OSHA PEL: TWA 200 ppm and ACGIH TLV-skin: TWA 200ppm, STEL 250 ppm.

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Ethylmethylketoxime is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within the following guidelines: Vendor guide TWA:3ppm, STEL:10ppm AIHA WEEL TWA: 10ppm. Ethylalcohol is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL and ACGIH TLV: TWA 1000ppm.

**Section 3 - Physical Data**

Boiling Point:	Not applicable
Vapor Pressure:	Negligible (25°C)
Vapor Density (air=1):	>1
Specific Gravity:	1.04 (25°C)
Melting Point:	Not applicable
Evaporation Rate:	<1 (Butyl Acetate=1)
Solubility in Water:	Not soluble
Appearance (color):	Milk-white, translucent
Appearance (form):	Paste
Odor:	Oxime odor

**Section 4 - Fire & Explosion Hazard Data**

Flash Point (method used):	Not applicable. Solid
Flammable Limits:	[Methylethylketoxime: Decomposed product] Lower: Not measured Upper: not measured
Extinguishing Media:	Foam, dry chemical or carbon dioxide or fine water spray.
Special Fire Fighting Procedure:	Not required
Unusual Fire and Explosion Hazard:	None

**Section 5 - Health Hazard Data**

Hazards Classification:	None (based on IMO)
Fire and Explosion:	Not considered flammable nor combustible, but will burn if involved in a fire.
Potential Health Effect:	
Inhalation:	Narcotic by evolved vapor
Skin Contact:	On direct contact uncured product or its vapor may cause slight irritation to skin.
Eye Contact:	On direct contact uncured product or its vapor may cause slight irritation to eyes.
Ingestion:	No information is available
First Aid Measures:	
Inhalation:	Remove to fresh air

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**Skin Contact:** Immediately remove product from skin with dry cloth or towel, and wash exposed area with detergent

**Eye Contact:** Immediately flush with plenty of water for at least 15 minutes and promptly call a physician

**Ingestion:** Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Call a physician immediately.

**Section 6 - Reactivity Data**

**Stability:** Stable

**Condition to Avoid:** None

**Incompatibility (Material to Avoid):** Oxidizing material can cause a reaction. Water, moisture or humid air can cause hazardous vapors to form.

**Hazardous Decomposition or By-Product:** Methylethylketoxime (Flammable Liquid)

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** None

**Section 7 - Spill or Leak Procedures**

**Containment/Clean-up:** Observe all personal protection equipment recommendations. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since some silicone materials, even small quantities, may present a slip hazard. Final cleaning may require use of stream, solvents or detergents. Local, federal and state laws and regulations may apply to releases 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.

**Section 8 - Special Protection Information**

**Exposure Guidelines:** AIH WEEL-TWA: 10ppm  
[Methylethylketoxime; decomposed product]

**Respiratory Protection (Specific Type):** Use air-supplied breathing apparatus unless local exhaust ventilation is adequate or decomposed product is within AIHA guideline.

**Ventilation:**

**Local Exhaust:** Required

**Mechanical (general):** Adequate ventilation system

**Special:** Unknown

**Other:** Pay attention to ventilation such as local exhaust, mechanical and/or door open for at least 24 hours after application.

**Protective Gloves:** Plastic film or rubber gloves.

**Other Protective Clothing or Equipment:** Eyewash equipment.

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**Work/Hygienic Practices:**

Wash hands after handling. Keep away from heat and flame. Avoid contact with eyes and prolonged or repeated skin contact. Avoid contact with acidic, basic or oxidizing materials.

**Section 9 – Special Precautions****Precautions to be taken in Handling and Storage:**

Use with adequate ventilation. Product evolves methylethylketoxime (MEKO) when exposed to water or humid air. Provide ventilation during use to control methylethylketoxime (MEKO) within exposure guidelines or use respiratory protection. Product evolves methyl alcohol when exposed to water or humid air. Provide ventilation during use to control exposure within guidelines or use air-supplied or self-contained breathing apparatus. Product evolves ethyl alcohol on exposure to water or humid air. Provide ventilation during use to control ethanol within exposure guidelines.

Can be land-filled for cured product or burned in a chemical incinerator equipped with afterburner and scrubber. Do not dispose the emptied container unlawfully. Observe all federal, state and local laws.

**Section 10 - Regulatory Information**

Hazard Class: Not Regulated

Toxic Substances Control Act (TSCA) Status: Listed on the TSCA inventory

European Inventory of Existing Commercial Substances (EINECS) Status: Listed on the EINECS

Labeling According to EC-Regulations Required:

Symbol: Not required

R-Phrase: Not required

S-Phrase: Not required

Contains: None

Superfund Amendments and reauthorization to of 1986 (SARA) Title III Section 313 Supplier Notification:

This regulation required submission of annual reports of toxic chemical(s) that appear in section 313 of the emergency planning and community Right-To-know Act of 1986 and 40 CFR 372. This information must be included in all MSDS's. The toxic chemical(s) contained in this product are: Chemical Name (CAS No.) and Contents: None

California Proposition 65:

This regulation requires a warning for California Proposition 65 Chemical(s) under the stature.

The California Proposition 65 Chemical(s) contained in this product are:

Chemical Name/(CAS No.) and Contents: None

UN No.: None

IMO Classification and Class: None

Packaging Group: None

Proper Shipping Name: None

Technical Shipping Name: None

Marine Pollutant: None

DOT Reportable Quantity (RQ):

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Hazard Substance(s) Name:/(CAS No)

Contents and RQ: Not Applicable

<b>Section 11 - Other Information</b>
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## For Industrial Use Only

Skin Irritation:	No information is available
Eye Irritation:	No information is available
Sensitization:	No information is available
Acute Toxicity (LD50):	No information is available
Acute Toxicity (LC50):	No information is available
Subacute Toxicity:	No information is available
Chronic Toxicity:	No information is available
Carcinogen:	NTP: Not listed IARC: Not listed OSHA Regulated: Not Listed
Mutagenicity:	No information is available

## Other Information:

## Additional Information:

Methyl Ethyl Ketoxime (MEKO)---Decomposition product material will generate MEKO on exposure to humid air, gradually. This MEKO shows some adverse health effects in animal studies as follows:

Skin: Irritation: Causes mild irritation. Can be absorbed through the skin.  
 Eye Irritation: Causes severe irritation.  
 Acute Oral Tox: LD50 (rat)=>4.8 mg/l  
 Inhalation Tox: Shows narcotic action at high concentration. May produce blood effects.  
 Skin Sensitization: Positive (guinea pig)  
 Neurotoxicity: High doses can produce transient and reversible change in neurobehavioral function. No evidence of cumulative neurotoxicity was detected.  
 Carcinogenicity: Liver carcinomas were observed in a lifetime inhalation study (ca2 years) in which mice and rats were exposed. These carcinogens were statistically increased in males at MEKO concentrations of 735 ppm.  
 Relevance to humans is uncertain now.  
 Mutagenicity: Not considered mutagenic based on several in vitro and vivo studies.  
 Other Chronic Study: Degenerative effects on the olfactory epithelium of nasal passages occurred in a concentration related manner in males and females of mice and rats at MEKO concentration of 15.75 and 375 ppm.  
 Workplace Environmental Exposure: Exposure level AIHA WEEL: 10 ppm (TWA)

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