

3100 N.W. 36th Street Miami, FL, 33142 (833) 423-0432

www.gcelectronics.com SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: SILICONE SEALANT/ADHESIVE

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Type: Solvent Release Adhesive RTV Emergency Contact: Chemtrec

Product Name: SILICONE SEALANT/ADHESIVE Phone: (800) 424-9300

Part Number(s): 19-155 Clear Industrial Use Only

SECTION 2. HAZARD(S) IDENTIFICATION

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2

Sensitization, skin Category 1
Reproductive toxicity (fertility) Category 2

Specific target organ toxicity, repeated

exposure

Environmental hazards Not classified.

OSHA defined hazards Not classified.

*Hazards not stated here are "Not classified", "Not applicable" or "Classification not possible".

Label elements





Signal word Warning

Hazard statement Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility.

May cause damage to organs (hematopoietic system) through prolonged or repeated exposure.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Contaminated work clothing

Category 2 (hematopoietic system)

should not be allowed out of the workplace.

Response ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical

advice/attention. Get medical advice/attention if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing

and wash it before reuse. Store locked up.

Storage Dispose of contents/container in accordance with local/regional/national/international regulations.

Disposal

Hazard(s) not otherwise None known.

classified (HNOC)

Supplemental information None.

Part Number(s): 19-155 Page 1 of 11



3100 N.W. 36th Street Miami, FL, 33142 (833) 423-0432 www.gcelectronics.com

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: SILICONE SEALANT/ADHESIVE

SECTION 2. HAZARD(S) IDENTIFICATION (CONTINUED)

Substance(s) formed under the

condition of use

This product reacts with water, moisture or humid air to evolve following compounds:

Methylethylketoxime

HMIS® ratings

Flammability: 1 Physical hazard: 0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Health: 2*

Mixtures

Percent	
1 - < 3	
< 1	
< 1	
< 1	
< 1	
< 1 < 1 < 1	

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and plenty of water. For minor skin contact, avoid spreading material on Skin contact

unaffected skin. If skin irritation or rash occurs: Get medical advice/attention. Take off

contaminated clothing and wash before reuse.

Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses, if present Eye contact

and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention immediately.

Most important

symptoms/effects, acute and

delayed

Dermatitis. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Prolonged exposure may cause chronic

effects.

Indication of immediate medical attention and special

treatment needed

General information

Treat symptomatically.

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated

clothing before reuse.

Page 2 of 11 Part Number(s): 19-155



SDS Number: 201 Revision Date: 02/16/2023

Supersedes Date: 08/04/2022

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: SILICONE SEALANT/ADHESIVE

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Unsuitable extinguishing

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire-fighting

equipment/instructions

General fire hazards

Use carbon dioxide, regular dry chemical powder, foam, or water fog.

None known.

By heating and fire, harmful vapors/gases may be formed.

Nitrogen oxides. (corrosive)

Firefighters must use standard protective equipment including flame retardant coat, helmet,

gloves, rubber boots, and self-contained breathing apparatus.

Move containers from fire area if you can do so without risk.

No unusual fire or explosion hazards noted.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch or walk through spilled material. Ensure adequate ventilation. Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up Eliminate sources of ignition.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product

and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills in original containers for re-use.

Prevent further leakage or spillage if safe to do so. Environmental precautions

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Provide adequate ventilation. Use care in handling/storage. Obtain special instructions before use. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid contact with eyes. Avoid contact with skin.

Conditions for safe storage, including any incompatibilities Store locked up. Keep container tightly closed. Keep out of the reach of children. Store in a cool, dry place out of direct sunlight. Keep in original container.

Part Number(s): 19-155 Page 3 of 11



SDS Number: 201 Revision Date: 02/16/2023 Supersedes Date: 08/04/2022

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: SILICONE SEALANT/ADHESIVE

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Туре	Value		
Methylethylketoxime (Impurity) (CAS 96-29-7)	TWA	36 mg/m3	Total dust	
Vendor guide		10 ppm		
Components	Туре	Value		
Methylethylketoxime (Impurity) (CAS 96-29-7)	STEL TWA	10 ppm 3 ppm		

No biological exposure limits noted for the ingredient(s). Biological limit values

Provide adequate general and local exhaust ventilation. Provide eyewash station. Appropriate engineering

controls

Pay attention to ventilation such as local exhaust, mechanical and/or door open for at least 24

hours after application.

Individual protection measures, such as personal protective equipment

Eye/face protection Tightly sealed safety glasses according to EN 166. Skin protection

Hand protection Wear protective gloves.

Wear suitable protective clothing. Other

If airborne concentrations are above the applicable exposure limits, use NIOSH approved Respiratory protection

respiratory protection.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

Avoid contact with eyes. Avoid contact with skin. When using, do not eat, drink or smoke. Keep General hygiene considerations away from food and drink. Wash hands before breaks and immediately after handling the product.

Contaminated work clothing should not be allowed out of the workplace. Handle in accordance

with good industrial hygiene and safety practice.

Part Number(s): 19-155 Page 4 of 11



3100 N.W. 36th Street Miami, FL, 33142 (833) 423-0432 www.gcelectronics.com

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: SILICONE SEALANT/ADHESIVE

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Paste. Translucent Color Oxime odor Odor Odor threshold Not available. Not available. Melting point/freezing point Not applicable Initial boiling point and boiling Not applicable

range

204.8 °F (96 °C) Closed Cup Flash point

No data

Evaporation rate < 1 (Butyl Acetate=1)

Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits No data

Flammability limit - lower

(%)

Flammability limit - upper

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Negligible (25 °C)

Vapor density > 1 (air=1) density 1.03 (25 °C)

Solubility(ies)

Solubility (water) Not soluble Partition coefficient Not applicable

(n-octanol/water)

No data Auto-ignition Decomposition temperature Not available. Viscosity Not applicable

Other information

Not applicable Molecular weight

Part Number(s): 19-155 Page 5 of 11



3100 N.W. 36th Street Miami, FL, 33142 (833) 423-0432 www.gcelectronics.com

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: SILICONE SEALANT/ADHESIVE

SECTION 10. STABILITY AND REACTIVITY

Reactivity No hazardous reaction known under normal conditions of use, storage and transport.

Chemical stability Stable at normal temperatures and pressure. Hazardous polymerization does not occur.

Possibility of hazardous

reactions

None known. Conditions to avoid Strong oxidizing agents. Water, moisture.

Incompatible materials

Hazardous decomposition

products

This product reacts with water, moisture or humid air to evolve following compounds:

Methylethylketoxime. Refer to section 8: exposure controls/personal protection and section 11:

toxicological information.

Thermal breakdown of this product during fire or very high heat condition may evolve the following

hazardous decomposition product:

Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Nitrogen

oxides. Formaldehyde.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion No significant effects are expected. No significant effects are expected. Inhalation Skin contact May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Dermatitis. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness,

swelling, and blurred vision. May cause an allergic skin reaction.

Information on toxicological effects

Acute toxicity

CAS	Component	Result	Species	Dose	Exposure
Proprietary		LD50 Oral	Rat	2995 mg/kg 2400 mg/kg	N/A
	Alkoxysilane	LC50 Inhalation	Rat	1.49-2.44 mg/L	4 hr
		LD50 Dermal	Rabbit	>2000 mg/kg 16 ml/kg	N/A
96-297	Methylethylketoxime (Impurity)	LD50 Oral	Rat	930 mg/kg	N/A
		LD50 Dermal	Rabbit	200 μl/kg	N/A

Part Number(s): 19-155 Page 6 of 11



3100 N.W. 36th Street Miami, FL, 33142 (833) 423-0432 www.gcelectronics.com

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: SILICONE SEALANT/ADHESIVE

SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

Skin corrosion/irritation SKIN-RABBIT: Moderately irritating [Alkoxysilane]

SKIN-RABBIT : 500mg/24hr MILD [Octamethylcyclotetrasiloxane]

Serious eye damage/eye

irritation

Causes serious eye damage. [Vinyloximesilane] [Methylethylketoxime] EYE-RABBIT: 15mg SEVERE [Alkoxysilane]

Causes serious eye irritation. [Methyloximesilane]
EYE-RABBIT: MILD [Octamethylcyclotetrasiloxane]

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization May cause an allergic skin reaction. [Methyloximesilane] [Vinyloximesilane]

[Methylethylketoxime]

Positive (Guinea pig) [Alkoxysilane]

No evidence of sensitization [Octamethylcyclotetrasiloxane]

Germ cell mutagenicity Negative (Ames test, Chromosome analysis, Micronucleus test) [Alkoxysilane]

Negative(Bacteria) [Octamethylcyclotetrasiloxane]
Suspected of causing cancer. [Methylethylketoxime]

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Carcinogenicity

Reproductive toxicity Octamethylcyclotetrasiloxane administered to rats by whole body inhalation at concentrations of

500 and 700 ppm for 70 days prior to mating, through mating, gestation and lactation resulted in decreases in live litter size. Additionally, increases in the incidence of deliveries of offspring extending over an unusually long time period (dystocia) were observed at these concentrations.

Statistically significant alterations in these parameters were not observed in the lower

concentrations evaluated (300 and 70 ppm). In a previous range-finding study, rats exposed to vapor concentrations of 700 ppm had decreases in the number of implantation sites and live litter

size. The significance of these findings to humans is not known.

[Octamethylcyclotetrasiloxane]

Developmental toxicity: NOAEL 500mg/kg/day (Rat), Maternal toxicity: NOAEL 500mg/kg/day (Rat)

[Alkoxysilane]

Specific target organ toxicity -

single exposure

Not available.

Part Number(s): 19-155 Page 7 of 11



SDS Number: 201 Revision Date: 02/16/2023

Supersedes Date: 08/04/2022

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: SILICONE SEALANT/ADHESIVE

SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

Specific target organ toxicity repeated exposure

May cause damage to the following organs through prolonged or repeated exposure:

Hematopoietic system. [Vinyloximesilane] Hematopoietic system. [Methyloximesilane]

Repeated inhalation or oral exposure of mice and rats to octamethylcyclotetrasiloxane produced an increase in liver size. No gross histopathological or significant clinical chemistry effects were observed. An increase in liver metabolizing enzymes, as well as a transient increase in the number of normal cells (hyperplasia) followed by an increase in cell size (hypertrophy) were determined to be the underlying causes of the liver enlargement. The biochemical mechanisms producing these effects are highly sensitive in rodents, while similar mechanisms in humans are insensitive. A two year combined chronic and carcinogenicity assy was conducted on octamethylcyclotetrasiloxane. Rats were exposed by whole-body vapor inhalation 6hrs/day, 5days/week for up to 104weeks to 0, 10, 30, 150 or 700ppm of octamethylcyclotetrasiloxane. The increase in incidence of (uterine)endometrial cell hyperplasia and uterine adenomas(benign tumors) were observed in female rats at 700ppm. Since these effects only occurred at 700ppm, a level that greatly exceeds typical workplace or consumer exposure, it is unlikely that industrial, commercial or consumer uses of products containing octamethylcyclotetrasiloxane would result in a significant risk to humans. [Octamethylcyclotetrasiloxane]

Aspiration hazard Chronic effects

Not available. Not available.

Further information Additional Information

> Methyl Ethyl Ketoxime (MEKO). Material will generate MEKO on exposure to humid air gradually. Male rodents exposed to MEKO vapor at high concentration throughout their lifetime developed liver cancer. But relevance to humans is uncertain now. Please read the detail information to MEKO below

Skin Irritation ;Causes mild irritation. Can be absorbed through the skin.

Eyes Irritation ;Causes severe irritation. ;LD50(rat)= >900mg/kg. Acute Oral Tox. ;LD50(rabbit)= >1000mg/kg. Acute Dermal Tox. Acute Inhalation Tox.;LD50(rat) > 4.83mg/l/4Hr

Inhalation Tox. ;Shows narcotic action at high concentration. May produce blood effects

Skin Sensitization ;Positive(guinea pig)

Neurotoxicity ;High dose can produce transient and reversible change in neurobehavioral

function.

Carcinogenicity ;Liver carcinomas were observed in a lifetime inhalation study (ca.2 years)

in which mice and rats were exposed.

Other Chronic Study :Degenerative effects on the olfactory epithelium of nasal passages occured in a concentration related manner in males and females of mice and rats at MEKO concentration of 15, 75 and 375ppm. The significant change in hematological parameters were observed at 404ppm concentration.

Workplace Environmental Exposure Level; Vendor guide; 3ppm(TWA), 10ppm(STEL),

AIHA WEEL; 10ppm(TWA)

SECTION 12. ECOLOGICAL INFORMATION **Ecotoxicity**

Toxic to aquatic life. Toxic to aquatic life with long lasting effects. [Alkoxysilane] May cause long lasting harmful effects to aquatic life. [Octamethylcyclotetrasiloxane]

Part Number(s): 19-155 Page 8 of 11



SDS Number: 201 Revision Date: 02/16/2023 Supersedes Date: 08/04/2022

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: SILICONE SEALANT/ADHESIVE

SECTION 12. ECOLOGICAL INFORMATION (Continued)

Component	Analysis – Aquatic Toxic	ity				
CAS	Component	Aquatic	Result	Species	Dose	Exposure
			LC50	Bluegill (Lepomis macrochirus)	>100 mg/L	96 hr
Proprietary	Alkoxysilane	Fish	LC50	Fathead minnow (Pimephales promelas)	>100 mg/L	96 hr
			LC50	Rainbow trout (Oncorhynchus mykiss)	>100 mg/L	96 hr
		Algae	EbC50	Green algae (Selenastrum capricornutum)	5.5 mg/L	72 hr
			ErC50	Green algae (Selenastrum capricornutum)	8.8 mg/L	72 hr
96-29-7	Methylethylketoxime (Impurity)	Fish	LC50	Fathead minnow (Pimephales promelas)	777-914 mg/L	96 hr

Persistence and degradability
Causes easily hydrolysis in water or atmosphere. [Alkoxysilane]

Bio accumulative potential Bio concentration Factor(BCF) / (Fathead minnows): 12400 [Octamethylcyclotetrasiloxane]

Mobility in soil Not available.

Other adverse effects Not available.

SECTION 13. Disposal considerations

Disposal instructions Follow applicable Federal, State and Local regulations.

SECTION 14. Transport information

DOT IMDG

Not regulated as dangerous goods.

Not regulated as dangerous goods.

Transport in bulk according to

Not regulated as dangerous goods. Annex II of MARPOL 73/78 and

the IBC Code

This product is not intended to be transported in bulk.

Part Number(s): 19-155 Page 9 of 11



On inventory (yes/no)*

3100 N.W. 36th Street Miami, FL, 33142 (833) 423-0432 www.gcelectronics.com

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

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SECTION 15. REGULATORY INFORMATION

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 313 (TRI reporting)

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Inventory name

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region

Country(3) or region	inventory name	On inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Part Number(s): 19-155 Page 10 of 11



SDS Number: 201 Revision Date: 02/16/2023

Yes

Supersedes Date: 08/04/2022

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: SILICONE SEALANT/ADHESIVE

SECTION 15. REGULATORY INFORMATION (CONTINUED)

Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16. OTHER INFORMATION

NFPA ratings

Health: 2

Fire: 1

Reactivity: 0

NFPA ratings

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS III:



0 = Not Significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Key/Legend:

AICS (Australia); DSL (Canada); IECSC (China); REACH (European Union); ENCS (Japan); ISHL (Japan); KECI (Korea); NZIOC (New Zealand); PICCS (Philippines); TCSI (Taiwan); TSCA (USA); ACGIH - USA. ACGIH Threshold Limit Values (TLV); NIOSH REL - USA. NIOSH Recommended Exposure Limits; OSHA PO - USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000; OSHA Z-1 - USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminates; OSHA Z-3 - USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts; ACGIH / TWA - 8-hour, time-weighted average; NIOSH REL / TWA -Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek; NIOSH REL / ST - STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday; OSHA P0 / TWA - 8-hour, time-weighted average; OSHA Z-1 / TWA - 8-hour, time-weighted average; OSHA Z-3 / TWA - 8-hour, time-weighted average

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Part Number(s): 19-155 Page 11 of 11