

Marlite Silicone Sealant MS250 MS 251

SILCO INCORPORATED
MATERIAL SAFETY DATA SHEET

PRODUCT: MS 250, MS 251, MS 100-LG Silicone Sealant

(SECTION 1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured By:

Silco Incorporated
7651 Tyler Blvd.
Unit # 6
Mentor, OH 44060

Phone Number
(440)-975-8886
Fax Number
(440)-975-8887

REVISED: 5/21/98
PREPARER: John Boland

Supplied By:

Marlite
202 Harger Street
PO Box 250
Dover, OH 44622

Phone Number
(330) 343-6621
Fax Number
(330) 343-7296

General Description: silicone sealant
Physical Form: paste
Color: clear, white
bronze, almc
Odor: Low odor
NFPA Profile: Health 1 Flammability 1 Reactivity 0

Note: NFPA = National Fire Protection Association

(SECTION 2) OSHA HAZARDOUS COMPONENTS

<u>CAS Number</u>	<u>Wt%</u>	<u>Components</u>	<u>Exposure Limits</u>
007631869	9	Silica, amorphous	Observe particulate limits. OSHA PEL: TWA 15 mg/m ³ total dust, 5 mg/m ³ respirable fraction. ACGIH TLV: TWA 10 mg/m ³ inhalable particulate, 3 mg/m ³ respirable particulate
022984549	3	Methyl tri(ethylmethyl-ketoxime) silane	See ethyl methyl ketoxime comments.
083817725	1	Di(ethylmethyl-ketoxime) methoxymethyl silane	See ethyl methyl ketoxime and methyl alcohol comments.

101371000	.5	Ethoxy tri(ethylmethyl- ketoxime) silane	See ethyl alcohol and ethyl methyl ketoxime comments.
093917750	.4	Diethoxy di(ethylmethyl- ketoxime) silane	See ethyl alcohol and ethyl methyl comments.
000096297	.1	Methylethyl- ketoxime	Vendor guide: TWA 1 ppm. STEL 10 ppm. AIHA WEEL: TWA 10 ppm.
034206401	.1	Tetra(methylethy- ketoxime) silane	See ethyl methyl ketoxime comments.
101371011	.1	Triethoxy (ethylmethyl- ketoxime) silane	See ethyl alcohol and ethyl methyl ketoxime comments.

Comments: Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 200 ppm and ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm. Ethyl methyl ketoxime is formed upon contact with water or humid air. provide adequate ventilation to control exposures within the following exposure guidelines: Vendor guide TWA: 3 ppm, STEL: 10ppm; AIHA WEEL TWA: 10 ppm. Ethyl alcohol is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL and ACGIH TLV: TWA 1000 ppm.

(SECTION 3) EFFECTS OF OVEREXPOSURE

Acute Effects

Eye: Direct contact irritates slightly with redness and swelling.

Skin: A single short exposure (less than 24 hours) may irritate. Repeated prolonged contact (24 to 48 hours) may irritate moderately. Product contains oximes which are possible skin sensitizers.

Inhalation: Vapor overexposure may cause drowsiness, injure blood, liver and may irritate eyes, nose and throat.

Oral: Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may injure slightly.

Repeated Exposure Effects

Skin: Product contains oximes which are a possible skin sensitizer.

Inhalation: Vapor overexposure may cause drowsiness, injure blood, liver and may irritate eyes, nose and throat.

Oral: Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may injure slightly.

Special Hazards

This material contains the following components with the special hazards listed below.

Carcinogens: None Known
Teratogens: None Known
Mutagens: None Known
Reproductive Toxins: None Known

Sensitizers:

022984549	3	Methyl tri (ethylmethylketoxime silane	Possible skin sensitizer
083817725	1	Di (ethylmethylketoxime silane	Possible skin sensitizer
101371000	.5	Ethoxy tri (ethylmethylketoxime silane	Possible skin sensitizer
093917750	.4	Diethoxy di (ethylmethylketoxime) Silane	Possible skin sensitizer
000096297	.1	Methylethylketoxime	Possible skin sensitizer
034206401	.1	Tetra (methylethylketoxime) silane	Possible skin sensitizer
101371011	.1	Triethoxy (ethylmethylketoxime)	Possible skin sensitizer

Comments: Methyl Ethyl Ketoxime (MEKO) is formed upon contact with water or humid air. Male rodents exposed to MEKO vapor throughout their lifetime developed liver cancer. Additional testing is planned by the MEKO supplier to determine and relevance to humans; Until more data is known, exposure levels should be maintained as low as achievable. Please read the additional information below.

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.

(SECTION 4) FIRST AID MEASURES

Eye: Immediately flush with water for 15 minutes.

Skin: Remove from skin and immediately flush with water for 15 minutes. Get medical attention if irritation or ill effects develop or persist.

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

Oral: Get medical attention.

Comments: Treat according to person's condition and specifics of exposure.

(SECTION 5) FIRE FIGHTING MEASURES

Flash Point (Closed Cup):	Not applicable - Solid
Autoignition Temperature:	Not Determined
Flammability Limits in Air:	Not Determined
Extinguishing Media:	On large fires use dry chemical foam, or water spray. On small fires use carbon dioxide (CO ₂); dry chemical or water spray. Water can be used to cool fire exposed containers.
Fire Fighting Procedures:	Self contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.
Unusual Fire Hazards:	None

Hazardous Decomposition Products.

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Metal oxides. Carbon oxides and traces of incompletely burned carbon compounds. Nitrogen oxides. Silicon dioxide. Formaldehyde.

(SECTION 6) ACCIDENTAL RELEASE MEASURES

Containment/Clean-up: Observe all personal protection equipment recommendations described in Section 5 & 8. Wipe up or scrape up and contain for salvage or disposal. Clean area 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. Local, state, and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the clean up of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 & 15 of this MSDS provide information regarding certain federal and state requirements..

NOTE: See section 8 for Personal Protective Equipment for Spills. Call Silco Incorporated if additional information is needed. (440)-975-8886.

(SECTION 7) HANDLING AND STORAGE

Handling: Use with adequate ventilation. product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. Provide ventilation during use to control methyl ethyl ketoxime (MEKO) within exposure guidelines (See Section 2) or use respiratory protection. Product evolves methyl alcohol when exposed to water or humid air. Provide ventilation during use to control exposure within Section 2 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 (See Section 2) or use respiratory protection. Avoid breathing vapor. Keep container closed. Avoid eye contact. Do not take internally. Avoid skin contact.

Storage: Keep container closed and store away from water or moisture.

(SECTION 8) EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Local exhaust: recommended
General Ventilation: recommended

Personal Protective Equipment for Routine Handling

Eyes: Use proper protection - safety glasses as a minimum.

Skin: Wash at meal time and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.

Suitable Gloves: Silver Shield(R). 4H(R). Butyl Rubber. Natural Rubber. Neoprene Rubber(R). Nitrile Rubber.

Inhalation: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial hygiene personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator: Organic Vapor / Dust / Mist Type.

Personal Protective Equipment for Spills

Eye: Use proper protection - safety glasses at a minimum.

Skin: Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.

Inhalation /

Suitable Respirator: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial hygiene personnel can assist in judging the adequacy of existing engineering controls.

Precautionary Measures: Avoid eye and skin contact. Avoid breathing vapor. Keep container closed. Do not take internally.

Comments: Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. Provide ventilation during use to control methyl ethyl ketoxime (MEKO) within exposure guidelines. (See Section 2) or use respiratory protection. Product evolves methyl alcohol when exposed to water or humid air. Provide ventilation during use to control exposure within Section 2 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 (See section 2) or use respiratory protection.

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

(SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical form:	Paste
Color:	Colorless
Odor:	Some odor
Specific Gravity @ 25C:	1.04
Viscosity:	Not applicable
Freezing / Melting Point:	Not determined
Boiling Point:	Not applicable
Vapor Pressure @ 25C:	Not applicable
Vapor Density:	Not applicable
Solubility in Water:	Not determined
pH:	Not applicable
Volatile content:	Not applicable

Note: The above information is not intended for use in preparing product specifications. Contact Silco before writing specifications. (440)-975-8886.

(SECTION 10) STABILITY AND REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: Hazardous polymerization will not occur.

Conditions to Avoid: None

Materials to Avoid: Oxidizing material can cause a reaction. Water, moisture, or humid air can cause hazardous vapors to form as described in Section 2.

Comments: None

(SECTION 11) TOXICOLOGICAL INFORMATION:

Optional Section - Complete information not yet available.

(SECTION 12) ECOLOGICAL INFORMATION

Optional Section - Complete information not yet available.

(SECTION 13) DISPOSAL INFORMATION

RCRA Hazard Class (40CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous material? N

Federal Hazardous waste Code: NA

Characteristic Waste:

Ignitable: NA
Corrosive: NA
Reactive: NA

TCLP: NA

State or local laws may impose additional regulatory requirements regarding disposal.

NA = Not applicable

Call Silco Incorporated if additional information is required. (440)-975-8886.

(SECTION 14) TRANSPORT INFORMATION

DOT Information (49CFR 172.101)

Proper Shipper Name: Not applicable
Hazard Technical Name: Not applicable
Hazard Class: Not applicable
UN/NA Number: 0000
Packing Group: NA

0000 and NA = Not applicable

Call Silco Incorporated if additional information is required. (440)-975-8886.

(SECTION 15) REGULATORY INFORMATION

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

TSCA Status: All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances: None
Section 304 CERCLA Hazardous Substances: None
Section 312 Hazard Class:

Acute: Y
Chronic: Y
Fire: N
Pressure: N
Reactive: N

Y = yes N = No

Section 313 Toxic Chemicals: None present or none present in regulated quantities.

Supplemental State Compliance Information

CAS Number Wt% Component

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. **NONE KNOWN.**

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 birth defects or other reproductive harm. **NONE KNOWN.**

Massachusetts

007631869 9 Silica, amorphous

New Jersey

070131678 83 Dimethyl siloxane, hydroxy - terminated
022984549 3 Methyl tri(ethylmethylketoxime) silane
083817725 1 Di (ethylmethylketoxime) methoxymethyl silane
007631869 9 Silica, amorphous fumed; #1655

Pennsylvania

070131678	83	Dimethyl siloxane, hydroxy-terminated
022984549	3	Methyl tri(ethylmethylketoxime) silane
007631869	9	Silica, amorphous

(SECTION 16) OTHER INFORMATION

This information is offered in good faith as typical values and not as product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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