

Print Date: 5/31/2015

PRODUCT NAME: SIL-FLEX 7500 COLOR: ALUMINUM

REVISION DATE: May 31st 2015

1. PRODUCT AND	COMPANY	IDENTIFICATION			
Commercial Produ	Commercial Product Name: SIL-FLEX 7500				
Product Classifica	tion: Silicone	Sealant			
Manufacturer:					
Silco Inc.					
7635 St. Clair Aver	nue				
Mentor, OH 4406	0				
PHONE: 440-975-8	3886 FAX: 440)-975-8887			
General Description	on: Silicone el	astomer			
Physical Form: Pa	Physical Form: Paste				
Color: Aluminum					
Odor: Oxime odo	r				
NFPA PROFILE:	Health – 2	Flammability – 1	Instability/Reactivity - 0		
Note: NFPA = Nat	ional Fire Prot	ection Association			

2. HAZARDS IDENTIFICA	2. HAZARDS IDENTIFICATION			
Physical Hazards:	Not classified			
	Serious eye damage / eye irritant	Category 2		
	Sensitization, skin	Category 1		
	Reproductive Toxicity (fertility)	Category 2		
	Specific Target organ toxicity,	Category 2 (Cardiovascular /		
	Repeated exposure	Hematological: Hematopoiesis)		
Environmental Hazards:	Not classified			
OSHA Defined Hazards:	Not classified			
 Hazards not stated h possible". 				



GHS Label Elements	
Signal Word:	Warning
Hazard Statement:	Causes eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility. May cause damage to organs (Cardiovascular / Hematological: hematopoiesis) through prolonged or repeated use.
Precautionary	Obtain special instructions before use. Do not handle until all safety
Statement:	precautions have been read and understood. Wear protective gloves /
Prevention:	protective clothing / eye protection / face protection. Do not breathe dust / fume / gas/ mist / vapors / spray. Wash well after handling. Contaminated work clothing should not be allowed out of work place.
Response:	SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention / advice. Get medical attention / advice if you feel unwell.
	EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritant persists get medical attention / advice.
	If exposed or concerned: get medical attention or advice. Take off contaminated clothing and wash it before reuse.
Storage:	Store locked up.
Disposal:	Disposal of contents / container in accordance with local / regional /state / federal and international regulations.
Hazard(S) not Otherwise classified (HNOC):	None known.
Supplemental Information:	None known.
Substance(s) formed	This product reacts with water, moisture or humid air to evolve
under the conditions of use:	following compounds. Methylethylketoxime.
HMIS (Ratings):	Health: 2
	Flammability: 1
	Physical hazard: 0



1 ixtures		
Chemical Name	CAS Number	%
Methyloximesilane*	Proprietary*	1 - < 3
Vinyloximesilane*	Proprietary*	< 1
Alkoxysilane*	Proprietary [*]	< 1
Methylethylketoxime (impurity)	96-29-7	< 1
Octamethylcyclotetrasiloxane (impurity)	556-67-2	< 1
Designates that a specific chemical identity and	l or percentage of composition	has been
withheld as a trade secret.		

4. FIRST AID MEASURES			
Inhalation:	Remove to fresh air. Call a physician if symptoms develop or persist.		
Skin Contact:	Wash off with soap and plenty of water. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation or rash occurs: get medical attention / advice. Take off contaminated clothing and wash before use.		
Eyes Contact:	Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.		
Ingestion:	Wash out mouth with water provided person is conscious. 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:	Treat Symptomatically.		
General Information:	If exposed or concerned: Get medical advice / attention. Ensure that medical personnel are aware materials involved and take precautions to protect themselves. Wash contaminated clothing before reuse.		



Environmental

precautions:

SAFETY DATA SHEET

5. FIRE FIGHTING MEASURES				
Suitable extinguishing media:	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2)			
Unsuitable extinguishing media:	None known.			
Specific hazards arising from the chemical:	By heating and fire, harmful vapors / gases may be formed. Nitrogen oxides (corrosive).			
Specific protective equipment and precautions for firefighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots and self-contained breathing apparatus.			
Fire Fighting equipment				
/ Instructions:	Move containers from fire area if you can do so without risk.			
General fire hazards:	No unusual fire or explosion hazards noted.			
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			

spills in original containers for reuse. Prevent further leakage or spillage if safe to do so.

material like vermiculite, sand or earth to soak up product and place

Small Spills: Wipe up with absorbent material (e.g. cloth). Clean surface thoroughly to remove residual contamination. Never return

into a container for later disposal.



7. HANDLING AND STORAGE		
Precaution 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	Stored locked up. Keep container tightly closed. Keep out of reach of children. Store in a cool dry place out of direct sunlight. Keep in original container.	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION				
Occupational exposure limits				
US. Workplace Environmental Exposure Level (WEEL) Guides				
CAS #	Туре	Value		
96-29-7	TWA	36 mg/m3		
96-29-7	STEL	10 ppm		
	TWA	3 ppm		
No biological exposure limi	ts for the ingredie	ent(s).		
Provide adequate general a	nd local exhaust	ventilation.		
Provide eyewash station. P	ay attention to ve	entilation such as		
local exhaust, mechanical a	nd or / door oper	n for at least 24		
hours after application.				
such as personal protective e	quipment.			
Tightly sealed safety glasses	s according to EN	166.		
Wear protective gloves.				
Wear suitable protective cl	othing.			
If airborne concentrations a	are above the app	licable exposure		
limits, use NIOSH approved	respiratory prote	ection.		
Wear appropriate thermal protective clothing, when				
•	oid contact with	skin. When using.		
•		-		
		-		
-	-			
•				
	 Apposure Level (WEEL) Guides CAS # 96-29-7 96-29-7 No biological exposure limit Provide adequate general at Provide eyewash station. P local exhaust, mechanical at hours after application. Such as personal protective ext Tightly sealed safety glasses Wear protective gloves. Wear suitable protective closes Wear suitable protective closes If airborne concentrations at limits, use NIOSH approved Wear appropriate thermal necessary. Avoid contact with eyes. Av do not eat, drink or smoke. Wash hands before breaks product. Contaminated wor out of the work place. Hand 	CAS #Type96-29-7TWA96-29-7STELTWA96-29-7STELTWANo biological exposure limits for the ingredieProvide adequate general and local exhaustProvide eyewash station. Pay attention to velocal exhaust, mechanical and or / door operhours after application.Such as personal protective equipment.Tightly sealed safety glasses according to ENWear protective gloves.Wear suitable protective clothing.If airborne concentrations are above the applimits, use NIOSH approved respiratory protectiveWear appropriate thermal protective clothing		



9. PHYSICAL/CHEMICAL CHARACTERISTICS

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	Appearance	
	Form:	Paste
	Color:	Aluminum
	Odor:	Oxime odor
	Odor Threshold:	Not available
	pH:	Not available
	Melting point / freezing point:	Not available
	Initial boiling point and boiling range:	Not available
	Flash Point:	204.8 F ⁰ (96 ⁰ C) Closed cup
	Evaporative rate:	< 1 (Butyl Acetate = 1)
	Flammability (solid, gas):	Not applicable
	Upper / Lower flammability or explosive limits:	
	Flammability limit – lower (%):	No data
	Flammability limit – upper (%):	No data
	Explosive limit – Lower (%):	Not available
	Explosive limit – Upper (%):	Not available
	Vapor pressure:	Negligible (25 ⁰ C)
	Vapor density:	> 1 (air=1)
	Relative Density	1.04 (25 ^o C)
	Solubility (water):	Not soluble
	VOC Content:	40 grams per liter
	Partition coefficient:	Not applicable
	(n-octanol / water)	
	Auto-ignition temperature:	No data
	Decomposition temperature:	Not available
	Viscosity:	Not applicable
	Molecular weight:	Not applicable
	Other information:	Not applicable

LO. STABILITY AND REACTIVITY		
Reactivity	No hazardous reaction known under normal conditions of use,	
	storage and transport.	
Chemical stability	Stable at normal conditions.	
Possibility of hazardous	ardous Hazardous polymerization does not occur.	
Reactions		
Conditions to avoid	None known.	
Incompatible materials	Strong oxidizing agents. Water and moisture.	
Hazardous decomposition	This product reacts with water, moisture, or humid air to evolve	
products:	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.

11. TOXICOLOGICAL INFORMATION				
Information on likely routes of exposure				
Ingestion:	No significant effects are expected			
Inhalation:	No significant effects are expected			
Skin contact:	May cause an allergic rea	action		
Eye contact:	Causes serious eye irrita	tion		
Symptoms related to the	Dermatitis. Rash. Severe	eye irritation. Sy	mptoms may include stinging,	
physical, chemical, and	tearing, redness, swellin	g and blurred visi	ion. May cause an allergic skin	
toxicological characteristics:	reaction.			
Information on toxicological e	ffects			
Acute toxicity				
Components	CAS #	Species	Test Results	
Alkoxysilane	(CAS proprietary)			
Acute				
Dermal				
LD50		Rabbit	> 2000 mg/kg	
			16 ml/kg	
Inhalation				
LC 50		Rat	1.49-2.44 mg/l/4h	
Oral				
LD 50		Rat	2995 mg/kg	
			2400 mg/kg	
Methylethylketoxime (impuri	ty) (CAS 96-29-7)			
Acute				
Dermal				
LD50	Rabbit 200 ul/kg			
Oral				
LD50		Rat	930 mg/kg	
Skin corrosion / irritation:	Skin-Rabbit: Moderately irritating (alkoxysilane) Skin-Rabbit: 500 mg/24hr.MILD (Octamethylcyclotetrasiloxane)			



Serious eye damage/eye irritation:	Causes serious eye damage. (vinyloximesilane) (methylethylketoxime) Eye – Rabbit: 15mg SEVERE (alkoxysilane) Causes serious eye irritation.
	Eye – Rabbit: MILD (Octamethylcycotetrasiloxane)
Respiratory Sensitization:	Not available.
Skin Sensitization:	May cause and allergic skin reaction. (Methyloximesilane)
	(Vinyloximesilane) (Methylethylketoxime).
	Positive (Guinea Pig) (alkoxysilane)
	No evidence of sensitization (Octamethylcycotetrasiloxane)
Germ Cell Mutagenicity:	Negative (Ames test, Chromosome analysis, Micronucleus test)
	(Alkoxysilane).
	Negative (Bacteria) (Octamethylcycotetrasiloxane)
Carcinogenicity:	Suspected of causing cancer. (Methylethylketoxime)
OSHA Specifically	Not listed
Regulated Substances (29 CFR	
1910.1001-1050):	
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 500 mg/kg/day (rat), maternal toxicity: NOAEL 500 mg/kg/day (rat) (alkoxysilane)
Specific target organ toxicity – single source:	Not available
Specific target organ toxicity –	May cause damage to the following organs through prolonged
repeated exposure:	exposure.
	Cardiovascular / Hematological: Hematopoiesis.
	(vinyloximinosilane)



Cardiovascular / Hematological: Hematopoiesis. (methyloximesilane) Repeated inhalation or oral exposure of mice and rice to Octamethylcycotetrasiloxane 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 assay was conducted on Octamethylcyclotetrasiloxane. Rats were exposed by whole-body vapor inhalation 6hrs /day, 5 days a week for up to 104 weeks to 0, 10, 30, 150 or 700 ppm of Octamethylcyclotetrasiloxane. The increase in incidence of (uterine) endometrial cell hyperplasia and uterine adenomas (benign tumors) were observed in female rats at 700 ppm. Since these effects only occurred at 700 ppm, 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: Not available Chronic effects: Not available **Further Information:** Methylethylketoxime (MEKO). Material will generate MEKO upon 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 skin. Eye Irritation: Causes severe irritation. _ Acute Oral Tox: LD50(rat) = >900mg/kg Acute Dermal Tox: LD50(rabbit)=>1000mg/kg Acute Inhalation Tox: LC50 (rat) >4.83 mg/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 occurred in a concentration related manner in males and females of mice and rats at MEKO concentration of 15, 75 and 375 ppm. The significant change in hematological parameters were observed at 404 ppm concentration.
- Workplace Environmental Exposure Level: Vendor guide: 3 ppm(TWA), 10ppm(STEL), AIHA WEEL: 10 ppm(TWA).

12. ECOLOGICAL CONSIDERATIONS Ecotoxicity

- Alkoxysilane: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
- Octamethylcyclotetrasiloxane: May cause long lasting harmful effects to aquatic life.

	Components	Species	Test Results
Alkoxysilane			
(CAS proprietary)			
Aquatic			// /
Algae	EbC50	Green Algae	5.5 mg/l, 72 hr
		(Selenastrum	
		caprornutum)	
	ErC50	Green Algae	8.8 mg/l, 72 hr
		(Selenastrum)	
Crustacea	EC50	Water Flea (Daphnia	90 mg/l, 48 hr
		magna)	
Fish	LC50	Bluegill (Leponis	> 100 mg/l, 96 hr
		macrochirus)	
		Flathead minnow	> 100 mg/l, 96 hr
		(Pimephales Promelas)	
		Rainbow Trout	> 100 mg/l, 96 hr
Methylethylketoxime (impurity)			
(CAS 96-29-7)			
Agustia			
			777 014 mag/1 0C hm
Fish	LC50	Flathead minnow (Pimephales Promelas)	777 -914 mg/l, 96 hr
Persistence and degradability: C	auses easily hydrolysi	is in water or atmosphere. (alkoxysilane)
Bioaccumulative potential: Bio c	oncentration Factor (BCF) / (Flathead minnow): 1	12400
Octamethylcyclotetrasiloxane.			
Mobility in Soil: Not available.			
Other adverse effects: Not availa	ble		



13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT: Not regulated as dangerous good.IATA: Not regulated as dangerous good.IMDG: Not regulated as dangerous good.

Transport in bulk according toThis product is not intended to be transported in bulk.Annex II of MARPDL 73/78 andThe IBC Code:

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

- Massachusetts: Substance List: Not regulated.
- New Jersey Worker and Community Right to Know Act: Not listed.
- Pennsylvania Worker and Community Right to Know Act: Not listed.
- Rhode Island RTK: Not regulated.
- 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.



Country(s) 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 (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemicals	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	Yes
Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
United States	Toxic Substances Control Act (TSCA) Inventory	Yes
administered by the g	all components of this product comply with the inventory requ	

on the inventory administered by the governing country.

16.OTHER INFORMATION

Prepared by: Silco Inc.

These data are offered in good faith as typical values and not as product specifications. No warranty, either 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.

http://www.silco-inc.com