

Print Date: 5/31/2015

PRODUCT NAME: SIL-BOND RTV 3500 COLOR: TRANS BEIGE

REVISION DATE: May 31st 2015

1. PRODUCT AND	COMPANY	IDENTIFICATION		
Commercial Proc	duct Name: SII	-BOND RTV 3500		
Product Classific	ation: Silicone	Sealant		
Manufacturer:				
Silco Inc.				
7635 St. Clair Ave	enue			
Mentor, OH 440	60			
PHONE: 440-975	-8886 FAX: 440	0-975-8887		
General Descript	ion: Silicone e	lastomer		
Physical Form: P	aste			
Color: Trans Beig	ge			
Odor: Acetic acid	d odor			
NFPA PROFILE:	Health – 1	Flammability – 1	Instability/Reactivity - 0	
Note: NFPA = Na	ational Fire Pro	tection Association		

2. HAZARDS IDENTIFICATION **Physical Hazards:** Not classified Reproductive toxicity (fertility) Health Hazards: Category 2 Environmental Hazards: Not classified OSHA Defined Hazards: Not classified Hazards not stated here are "Not Classified", "Not Applicable" or "Classification not • possible". **GHS Label Elements** Warning Signal Word: Hazard Statement: Suspected of damaging fertility. May cause eye/lung/skin irritation. 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. 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	None known.
classified (HNOC):	
Supplemental	None known.
Information:	
Substance(s) formed	This product reacts with water, moisture or humid air to evolve
under the conditions of	following compounds: Acetic acid
use:	The following material is embedded in the product and not available
	as respirable dusts. When used as intended or as supplied, the
	product will not pose hazards. Titanium oxide.
HMIS (Ratings):	Health: 1
	Flammability: 1
	Physical hazard: 0

3. COMPOSITION/ INGREDIENTS

Mixtures

Hazardous Ingredients

Chemical Name	CAS Number	%
Ethyltriacetoxysilane	17689-77-9	1 – 5
Methylacetoxysilane	4253-34-3	1 – 5
Titanium oxide	13463-67-7	< 1
Distillates (petroleum), hydrotreated middle	64742-46-7	1-7
Octamethylcyclotetrasiloxane (impurity)	556-67-2	< 1





4. FIRST AID MEASURES	
Inhalation: Skin Contact:	Remove 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 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 developed or persists.
Ingestion:	Wash out mouth. Get medical attention immediately.
Most Important symptoms / effects, acute and delayed:	Direct contact with eyes may cause temporary irritation.
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.

5. FIRE FIGHTING MEASU	IRES
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.
Specific protective equipment and precautions for	Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots and self-contained breathing apparatus.
firefighters: 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 material like vermiculite, sand or earth to soak up product and place into a container for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for reuse.
Environmental	Prevent further leakage or spillage if safe to do so.
precautions:	

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. Pregnant and breastfeeding women must not handle this product. Do not breathe mist or vapor. Avoid contact with eyes. Avoid contact with skin. Avoid long term exposure.
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.

Occupational exposure limits			
US. OSHA Table Z-1 Limits for Ai	r Contaminants (29 CFR 191	.0.1000)	
Components	CAS #	Туре	Value
Titanium oxide	13463-67-7	PEL	15 mg/m3
Decomposition			
Distillates (petroleum)	64742-46-7	TWA (Mist)	5 mg/m3
hydrotreated middle			
Acetic acid	64-19-7	PEL	25 mg/m3
			10 ppm



Components Titanium dioxide	12462 67 7	T) A / A	10
	13463-67-7	TWA	10 mg/m3
Decomposition		CTE1	45
Acetic acid	64-19-7	STEL	15 ppm
		TWA	10 ppm
US. NIOSH: Pocket Guide to Chem	nical Hazards		
Decomposition		_	_
Acetic acid	64-19-7	STEL	37 mg/m3
			15 ppm
		TWA	25 mg/m3
			10 ppm
Distillates (petroleum)	64742-46-7	TWA (Mist)	5mg/m3
hydrotreated middle		ST (Mist)	10mg/m3
Biological limit values:	No biological exposure limits for the ingredient(s).		t(s).
Appropriate engineering	Provide adequate general	and local exhaust. Pr	rovide eyewas
controls:	station. Pay attention to ventilation such as local exhaust,		
	Station. Pay attention to	ventilation such as io	cal exhaust,
	mechanical and or / door		
	-		
	mechanical and or / door	open for at least 24 h	
Individual protection measure	mechanical and or / door applications.	open for at least 24 h equipment.	nours after
	mechanical and or / door applications. es such as personal protective	open for at least 24 h equipment.	nours after
Individual protection measure Eye / Face protection:	mechanical and or / door applications. es such as personal protective Tightly sealed safety glass	open for at least 24 h equipment. es according to EN 16	nours after
Individual protection measure Eye / Face protection: Skin / Hand protection: Other:	mechanical and or / door applications. es such as personal protective Tightly sealed safety glass Wear protective gloves.	open for at least 24 h equipment. es according to EN 16 clothing.	nours after
Individual protection measure Eye / Face protection: Skin / Hand protection:	mechanical and or / door applications. es such as personal protective Tightly sealed safety glass Wear protective gloves. Wear suitable protective If airborne concentrations	open for at least 24 h equipment. es according to EN 16 clothing. s are above the applic	nours after 56. cable exposure
Individual protection measure Eye / Face protection: Skin / Hand protection: Other:	mechanical and or / door applications. es such as personal protective Tightly sealed safety glass Wear protective gloves. Wear suitable protective If airborne concentrations limits, use NIOSH approve	open for at least 24 h equipment. es according to EN 16 clothing. are above the applic ed respiratory protect	nours after 56. cable exposure cion.
Individual protection measure Eye / Face protection: Skin / Hand protection: Other: Respiratory protection:	mechanical and or / door applications. es such as personal protective Tightly sealed safety glass Wear protective gloves. Wear suitable protective If airborne concentrations limits, use NIOSH approve Wear appropriate therma	open for at least 24 h equipment. es according to EN 16 clothing. are above the applic ed respiratory protect	nours after 56. cable exposure cion.
Individual protection measure Eye / Face protection: Skin / Hand protection: Other: Respiratory protection: Thermal hazards:	mechanical and or / door applications. es such as personal protective Tightly sealed safety glass Wear protective gloves. Wear suitable protective If airborne concentrations limits, use NIOSH approve Wear appropriate therma necessary.	open for at least 24 h equipment. es according to EN 16 clothing. are above the applic ed respiratory protect l protective clothing,	nours after 56. cable exposure tion. when
Individual protection measure Eye / Face protection: Skin / Hand protection: Other: Respiratory protection:	mechanical and or / door applications. es such as personal protective of Tightly sealed safety glass Wear protective gloves. Wear suitable protective of If airborne concentrations limits, use NIOSH approve Wear appropriate therma necessary. Avoid contact with eyes. A	open for at least 24 h equipment. es according to EN 16 clothing. are above the applic d respiratory protect l protective clothing, Avoid contact with sk	nours after 56. cable exposure tion. when in. When using
Individual protection measure Eye / Face protection: Skin / Hand protection: Other: Respiratory protection: Thermal hazards: General Hygiene	mechanical and or / door applications. es such as personal protective Tightly sealed safety glass Wear protective gloves. Wear suitable protective If airborne concentrations limits, use NIOSH approve Wear appropriate therma necessary. Avoid contact with eyes. A do not eat, drink or smoke	open for at least 24 h equipment. es according to EN 16 clothing. are above the applic d respiratory protect l protective clothing, Avoid contact with sk e. Keep away from fo	nours after 56. cable exposure tion. when in. When using od or drink.
Individual protection measure Eye / Face protection: Skin / Hand protection: Other: Respiratory protection: Thermal hazards: General Hygiene	mechanical and or / door applications. es such as personal protective of Tightly sealed safety glass Wear protective gloves. Wear suitable protective of If airborne concentrations limits, use NIOSH approve Wear appropriate therma necessary. Avoid contact with eyes. A do not eat, drink or smoke Wash hands before break	open for at least 24 h equipment. es according to EN 16 clothing. are above the applic d respiratory protect l protective clothing, Avoid contact with sk e. Keep away from fo s and immediately af	nours after 56. cable exposure cion. when in. When using od or drink. ter handling th
Individual protection measure Eye / Face protection: Skin / Hand protection: Other: Respiratory protection: Thermal hazards: General Hygiene	mechanical and or / door applications. es such as personal protective Tightly sealed safety glass Wear protective gloves. Wear suitable protective If airborne concentrations limits, use NIOSH approve Wear appropriate therma necessary. Avoid contact with eyes. A do not eat, drink or smoke	open for at least 24 h equipment. es according to EN 16 clothing. are above the applic d respiratory protect l protective clothing, Avoid contact with ski e. Keep away from fo s and immediately af ork clothing should n	nours after 56. cable exposure tion. when in. When using od or drink. ter handling th ot be allowed

9. PHYSICAL/CHEMICAL CHARACTERISTICS		
Appearance		
Form:	Paste	
Color:	Trans Beige	
Odor:	Acetic acid odor	



Odor Threshold:	Not available
pH:	Not available
Melting point / freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	141.8 °F (> 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:	30 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

10. STABILITY AND REACTIV	/ITY
Reactivity	No hazardous reaction known under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous	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. Acetic acid.
	Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon dioxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.



11. TOXICOLOGICAL INFO	RMATION			
Information on likely routes of ex	posure			
Ingestion: Ex	Expected to be a low ingestion hazard.			
Inhalation: Pr	Prolonged inhalation may be harmful.			
Skin contact: No	No adverse effects due to skin contact are expected.			
Eye contact: Di	Direct contact with eyes may cause temporary irritation.			
Symptoms related to the Di	Direct contact with eyes may cause temporary irritation.			
physical, chemical, and				
toxicological characteristics:				
Information on toxicological effe	cts			
Acute toxicity				
Toxicological data				
Decomposition				
	CAS #	Species	Test Results	
Acetic acid	64-19-7			
Acute				
Dermal			· · · · · //	
LD50		Rabbit	1060 mg/kg	
Inhalation			5000 41	
LC 50		Guinea Pig	5000 ppm, 1 hours	
		Mouse	5620 ppm, 1 hours	
		Rat	11.4 mg/l, 4hours	
Oral				
LD50		Mouse	4960 mg/kg	
		Rabbit	1200 mg/kg	
		Rat	3.31 g/kg	
Distillates (petroleum)				
hydrotreated middle		_	/	
Oral		Rat	> 5,000 mg/kg	
Inhalation		. .		
LC 50		Rat	1.78 mg/l, 4 hours	
Dermal		D. i	· · · · · · · · · · · · · · · · · · ·	
		Rat	> 2,000 mg/kg	
Skin corrosion / irritation:		Causes severe skin burns and eye damage. (Acetic acid) Skin-Rabbit: 500 mg/24hr.MILD (Octamethylcyclotetrasiloxane)		
Serious eye damage/eye irritatio	n: Causes serious e	Causes serious eye damage. (Acetic acid)		
	Eye – Rabbit: MII	Eye – Rabbit: MILD (Octamethylcycotetrasiloxane)		
Respiratory Sensitization:	Not available.	Not available.		



Skin Sensitization: Germ Cell Mutagenicity: Carcinogenicity: IARC Monographs, Overall Evaluation of Carcinogenicity. OSHA Specifically Regulated Substances (29 CFR	No evidence of sensitization (Octamethylcycotetrasiloxane) Negative (Bacteria) (Octamethylcycotetrasiloxane) The following material is embedded in the product and not available as respirable dusts. When used as intended or as supplied, the product will not pose hazards. Titanium oxide. Titanium oxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans. Not listed
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)
Specific target organ toxicity – single exposure:	Not available
Specific target organ toxicity – repeated exposure:	Repeated inhalation or oral exposure of mice and rats 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:	The substance or mixture is known to cause human aspiration
	toxicity hazards or has to be regarded as if it causes a human
	aspiration toxicity hazard. Distillates (petroleum), hydrotreated
	middle
Chronic effects:	Prolonged inhalation may be harmful. Prolonged exposure may
	cause chronic effects.
Further Information:	This product reacts with water, moisture or humid air to evolve
	following compounds: Acetic acid.

12. ECOLOGICAL CONSIDERATIONS

Ecotoxicity

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

Components Titanium oxide (CAS 13463-67-7)		Species	Test Results
Aquatic			
Crustacea	EC50	Water Flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus Heteroclitus)	> 1000 mg/l, 96 hours
Decomposition			
Acetic acid			
(CAS 64-19-7)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia Magna)	65 mg/l, 48 hours
Fish	LC50	Bluegill (Leponis Macrochirus)	75mg/l, 96 hours
Persistence and degradability: N	ot available.		
Bioaccumulative potential: Bio c	oncentration Factor	(BCF) / (Flathead minnow):	12400
Octamethylcyclotetrasiloxane.			
Mobility in Soil: Not available.			
Other adverse effects: Not availa	ole		



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 to This product is not intended to be transported in bulk.

Annex II of MARPDL 73/78 and

The 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.

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: Titanium oxide (CAS 13463-67-7)
- New Jersey Worker and Community Right to Know Act: Titanium oxide (CAS 13463-67-7)
- **Pennsylvania Worker and Community Right to Know Act:** Titanium oxide (CAS 13463-67-7)
- Rhode Island RTK: Not regulated.
- **California Proposition 65:** The following material is embedded in the product and not available as respirable dusts. When used as intended or as supplied, the product will not pose hazards.
- US California Proposition 65 CRT: Listed date / Carcinogenic substance Titanium oxide (CAS 13463-67-7) Listed: September 2, 2011





International Inventories		
inventories		
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

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.

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