



**SAFETY DATA SHEET**

*Print Date: 5/31/2015*

<b>PRODUCT NAME: ECO-FLEX 9500</b> <b>COLOR: BLACK</b>	<b>REVISION DATE: May 31, 2015</b>
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**1. PRODUCT AND COMPANY IDENTIFICATION**

**Identification Of The Substance Or Preparation**

**Commercial Product Name:** ECO-FLEX 9500

**Manufacturer:**

Silco Inc.  
7635 St. Clair Avenue  
Mentor, OH 44060  
PHONE: 440-975-8886 FAX: 440-975-8887

General Description: Hybrid Elastomeric Sealant / Adhesive

Physical Form: Paste

Color: Black

Odor: Slight odor

**NFPA PROFILE:** Health 1 Flammability 1 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

**2. HAZARDS IDENTIFICATION**

**Classification Of The Substance Or Mixture:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Classification (GHS):**

Class	Category	Route Of Exposure
Reproductive Toxicity	Category 2 (developmental toxicity)	
Harmful to Aquatic Life	Category 2	
Skin Irritation	Category 1	
Serious Eye Damage / Eye Irritation	Category 2	

**GHS Label Elements**

Signal Word:

Warning



H-Code

H315

H317

Hazard Statements.

Causes skin irritation.

May cause an allergic skin reaction.



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H318	Causes serious eye injury.
H361d	Suspected of damaging the unborn child.
P-Code	Precautionary Statements.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing / eye protection.
P302 + P352	If on skin: Wash with plenty of soap and water.
P305 + P351	If in eyes: Rinse with water for several minutes.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents /container in accordance with local regulation.

### 3. COMPOSITION/ INGREDIENTS

**Information On Ingredients:**

CAS #	COMPONENT	PERCENT
1317-65-3	Calcium Carbonate	35 – 55%
1760-24-3	Amino Silane	0.5 – 5%
2768-02-7	Vinyltrimethoxysilane	0.5 – 5%
13463-67-7	Titanium Dioxide	4 – 10%
-----	Proprietary Polymers	15 – 30%

Hazardous Ingredient: Amino Silane & Vinyltrimethoxysilane.

### 4. FIRST AID MEASURES

**General Information:** Get medical attention immediately if irritation or symptoms occur. Before seeking medical remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

**After Inhalation:** If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Consult a physician.

**After Contact With The Skin:** If contact with skin, immediately flush skin with plenty of water for at least 15 min. Wash with soap and water.

**After Contact With Eyes:** If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min. Consult a physician.

**After Swallowing:** For ingestion, if conscious, give no more than two glasses of water but do not induce vomiting. If vomiting does occur, give additional fluids. Get medical attention immediately.

### 5. FIRE FIGHTING MEASURES

**Flammable Properties:**

Flash Point.....: Not applicable (solid)

Upper Flammable Limit.....: Not applicable

Lower Flammable Limit (LEL).....: Not applicable

**Method**

(ISO 2692)



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Autoignition Temperature.....: Not applicable  
Sensitivity to Impact.....: Not applicable  
Sensitivity to Discharge.....: Not applicable

### Fire and Explosion Hazards:

**Recommended Extinguishing Media:** Water mist, carbon dioxide, dry chemical or alcohol resistant foam.

**Unsuitable Extinguishing Media:** Sharp water jet.

**Special Exposure Hazards Arising From The Substance Or Preparation Itself, Combustion Products, Resulting Gases:** Hazardous decomposition products: carbon dioxide, carbon monoxide and incompletely burnt hydrocarbons.

**Fire Fighting Procedures:** Cool endangered containers with water. Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

**Precautions:** Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Avoid inhaling mists and vapors.

**Containment:** Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free number (800) 424-8802.

**Methods For Cleaning Up:** Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner. Exhaust vapors.

## 7. HANDLING AND STORAGE

### Handling

**Precautions For Safe Handling:** Ensure adequate ventilation. Avoid contact with skin and eyes. Do not eat drink or smoke when using this product. Always wear protective clothing and eye protective equipment. Wash thoroughly after use.

**Precautions Against Fire And Explosion:** Product is not considered flammable under normal conditions, and product is not considered explosive.

### Storage

**Conditions For Storage Rooms And Vessels:** Make sure there is no possibility of entering the ground.



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**Advice For Storage Of Incompatible Materials:** Store in cool area.

**Further Information For Storage:** Protect against moisture. Store in original container only. Keep container tightly closed and store in a cool, well ventilated place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls**

**Ventilation:** Use with adequate ventilation. Recommended.

**Local Exhaust:** In case of potential decomposition products: Local exhaust ventilation which meets the requirements of ANSI Z9.2 is recommended to control airborne containments at the point of use. (To maintain concentration below TLV).

**Component Exposure Limits**

MATERIAL	CAS #	TYPE	mg/m <sup>3</sup>	DUST
Calcium Carbonate	1317-65-3	OSHA TWA	15	Total
			5	Respirable
Calcium Carbonate	1317-65-3	NIOSH	10	Total
			5	Respirable
Titanium Dioxide	13463-67-7	ACGIH TWA	10	-----
Titanium Dioxide	13463-67-7	OSHA	15	Total

**Personal Protection Equipment (PPE)**

**Respiratory Protection:** Respiratory protection is not normally required. A NIOSH approved air purifying respirator equipped with universal multi-containment, multi-gas/vapor cartridges and at least P-99 solid/aerosol particulate filters is recommended if overexposure to dusts, mists, or vapors could occur.

**Hand Protection:** Any liquid-tight rubber or vinyl rubber protective gloves.

**Eye Protection:** Safety glasses with side shields. Additional eye and face protection, splash-proof goggles, hood, full-faced respirator, or face shield is recommended if splashing occur.

**Other Protective Clothing Or Equipment:** Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

**General Hygiene And Protection Measures:** Avoid contact with eyes, skin and clothing. Avoid breathing dust/vapor/mist/gas/aerosol. Do not eat, drink or smoke when handling. Follow standard industrial hygiene practices when using this material. Wash thoroughly after handling.

**9. PHYSICAL/CHEMICAL CHARACTERISTICS**

**Appearance**

Physical State/Form.....: Paste

Color.....: Black

Odor.....: Slight odor

Specific Gravity.....: 1.66



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Safety Parameters	METHOD
Melting Point/Melting Range...: Not applicable	
Boiling Point/Boiling Range.....: Not applicable	
Flash Point.....: >200°C (>392°F)	(ISO 2592)
Ignition Temperature.....: Not determined	
Lower Explosion Limit (LEL).....: Not determined	
Vapor Pressure.....: < 1	
Vapor Density (Air=1).....: > 1	
Density.....: 12.29 lbs. / gallon	
Water Solubility/Miscibility.....: Not applicable	
pH-Value.....: Not applicable	
VOC Content.....: 18 grams per liter	

**10. STABILITY AND REACTIVITY**

**General Information:** If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

**Reactivity:** No reactivity hazard is expected.

**Chemical Stability:** Stable at normal temperatures and pressure.

**Conditions To Avoid:** Avoid heat, flames and sparks. Avoid contact with incompatible materials.

**Incompatible Materials:** Strong acids, strong oxidizing materials.

**Hazardous Decomposition Products:** Upon decomposition, this product emits carbon monoxide, carbon dioxide and or low molecular weight hydrocarbons.

**Hazardous Decomposition (Combustion):** Upon decomposition, this product emits carbon monoxide, carbon dioxide and or low molecular weight hydrocarbons.

**11. TOXICOLOGICAL INFORMATION**

**Acute Toxicity**  
**Product Details: Amino Silane (CAS # 1760-24-3)**

Route of exposure	Result/Effect	Species/Test System	Source
Oral	LD <sub>50</sub> :>2000 mg/kg	Rat	Conclusion by analogy
Dermal	LD <sub>50</sub> :>2000 mg/kg	Rat	Conclusion by analogy

**Acute Toxicity**  
**Product Details: Vinyltrimethoxysilane (CAS # 2768-02-7)**

Route of Exposure	Result/Effect	Species/Test System	Source
Oral	LD <sub>50</sub> :>2000 mg/kg	Rat	Conclusion by analogy
Dermal	LD <sub>50</sub> :>2000 mg/kg	Rat	Conclusion by analogy



**Acute Toxicity**

**Product Details: Titanium Dioxide (CAS# 13463-67-7) Light & Neutral Colors Only.**

Route of exposure	Result/Effect	Species/Test System	Source
Oral	LD <sub>50</sub> :>10000 mg/kg	Rat	Conclusion by analogy

**Information On Likely Routes Of Exposure**

**Inhalation:**

**Assessment:** No information available for this product. Maybe harmful if inhaled.

**Ingestion:**

**Assessment:** No information available for this product. May be harmful if ingested.

**Skin Contact:**

**Assessment:** May cause irritation of the skin.

**Eye Contact:**

**Assessment:** May cause irritation to eyes. Contact may cause tearing, redness and stinging or burning feeling, swelling and blurred vision.

**Immediate Effects:**

**Assessment:** Skin and eye irritation.

**Delayed Effects:**

**Assessment:** No information is available.

**Medical Conditions Aggravated by Exposure:**

**Assessment:** Skin and eye disorders

**Respiratory Sensitization:**

**Assessment:** For this endpoint no toxicological test data is available for the whole product.

**Germ Cell Mutagenicity**

**Assessment:** For this endpoint no toxicological test data is available for the whole product.

**Carcinogenicity**

**Assessment:** For this endpoint no toxicological test data is available for the whole product.



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### Reproductive Toxicity

**Assessment:** May damage fertility or the unborn child.

### Specific Target Organ Toxicity (Single Exposure)

**Assessment:** For this endpoint no toxicological test data is available for the whole product.

### Specific Target Organ Toxicity (Repeated Exposure)

**Assessment:** For this endpoint no toxicological test data is available for the whole product.

### Aspiration Hazard

**Assessment:** Based on the physical – chemical properties of the product no aspiration hazard must be expected.

## 12. ECOLOGICAL INFORMATION

### Toxicity

#### Assessment:

Assessment based on ecotoxicological tests with similar products under consideration of the physical-chemical properties: For this product is acutely harmful for aquatic organisms. Do not discharge into environment without control. Product has not been tested. Statements on ecotoxicology derived from properties of individual components.

### Persistence And Degradability

**Assessment:** No data known.

### Bioaccumulative Potential

**Assessment:** No data known.

### Mobility In Soil:

**Assessment:** No data known.

### Other Adverse Effects:

**Assessment:** No data known.

## 13. DISPOSAL CONSIDERATIONS

### Product Disposal

**Recommendation:** Material that cannot be used, reprocessed or recycled should be disposed of in accordance with federal, state and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.



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**Packaging Disposal**  
**Recommendation:** Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

**14. TRANSPORT INFORMATION**

**US DOT & CANADA TDG SURFACE**  
 Valuation.....: Not regulated for transport.  
**Transport by Sea IMDG-Code**  
 Valuation.....: Not regulated for transport.  
**Air Transport ICAO-TI/IATA-DGR**  
 Valuation.....: Not regulated for transport.

**15. REGULATORY INFORMATION**

**U.S. Federal Regulations**  
 None of this products components are listed under the following:

- TSCA Inventory Status and TSCA Information:
- TSCA 12(b) Export Notification:
- CERCLA Regulated Chemicals: (40 CFR302.4)
- SARA 302 EHS Chemicals: (40 CFR 355 Appendix A)
- SARA 311/312 Hazard Class: (40 CFR 370.21)
- SARA 313 Chemicals: (40 CFR 372.65)

**U.S. State Regulations**  
 The following components appear on one or more of the following state hazardous substances lists:

COMPONENT	CAS #	CA	MA	MN	NJ	PA
Calcium Carbonate	1317-65-3	No	Yes	Yes	Yes	Yes
Titanium Dioxide	13463-67-7	No	Yes	Yes	Yes	Yes

- **California Prop 65:** This product contains chemicals known to the State of California to cause cancer and, birth defects or other reproductive harm.





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### Details Of International Registration Status

South Korea (Republic of Korea)	<b>ECL (Existing Chemicals list):</b> This product is listed in, or complies with, the substance inventory.
Australia	<b>AICS (Australian Inventory of Chemical Substances):</b> This product is listed in, or complies with, the substance inventory.
Canada	<b>DSL (Domestic Substance List):</b> This product is listed in, or complies with, the substance inventory.
Philippines	<b>PICCS (Philippine Inventory of Chemicals and Chemical Substances):</b> This product is listed in, or complies with, the substances inventory.
United States of America (USA)	<b>TSCA (Toxic Substances Control Act Chemical Substances Inventory):</b> This product is listed in, or complies with, the substances inventory.
European Economic Area (EEA)	<b>REACH (Regulation (EC) No 1907/2006):</b> General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported in the EEA by customers or the downstream users must be fulfilled by the latter.

### 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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