

**Print Date: 5/31/2015** 

**PRODUCT NAME: GEN-SIL RTV 45** 

**COLOR: ALUMINUM REVISION DATE: May 31st 2015** 

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Commercial Product Name: GEN-SIL RTV 45 **Product Classification:** Silicone Sealant

Manufacturer:

Silco Inc.

7635 St. Clair Avenue Mentor, OH 44060

PHONE: 440-975-8886 FAX: 440-975-8887

**General Description:** Silicone elastomer

Physical Form: Paste Color: Aluminum Odor: Acetic acid odor

NFPA PROFILE: Health – 1 Flammability – 1 Instability/Reactivity - 0

**Note:** NFPA = National Fire Protection Association

#### 2. HAZARDS IDENTIFICATION

Not classified **Physical Hazards:** 

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** 

Signal Word: Warning



Suspected of damaging fertility. May cause eye/lung/skin irritation. **Hazard Statement:** Obtain special instructions before use. Do not handle until all safety **Precautionary** 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** 

classified (HNOC):

None known.

Supplemental No

Information:

None known.

Substance(s) formed

under the conditions of

use:

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

following compounds: Acetic acid

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 | < 20 - 30 |
| Octamethylcyclotetrasiloxane (impurity)      | 556-67-2   | < 1       |

**PRODUCT NAME: GEN-SIL 45** 



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 developed or persists.

Ingestion:Wash out mouth. Get medical attention immediately.Most ImportantDirect contact with eyes may cause temporary irritation.

symptoms / effects, acute and delayed:

**Indication of immediate** Treat Symptomatically.

Medical attention and

Special treatment Needed:

**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 MEASURES

**Suitable extinguishing** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2)

media:

Unsuitable extinguishing None known.

media:

**Specific hazards arising** By heating and fire, harmful vapors / gases may be formed.

from the chemical:

Specific protective Firefighters must use standard protective equipment including flame

equipment and precautions for

retardant coat, helmet, gloves, rubber boots and self-contained

breathing apparatus.

firefighters:

Fire Fighting equipment

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

/ Instructions:

**General fire hazards:** No unusual fire or explosion hazards noted.



| 6. ACCIDENTAL RELEASE | MEASURES                                                              |
|-----------------------|-----------------------------------------------------------------------|
| Personal precautions, | Keep unnecessary personnel away. Local authorities should be          |
| protective equipment  | advised if significant spillages cannot be contained. Do not touch or |
| and emergency         | walk through spilled material. Ensure adequate ventilation. Wear      |
| procedures            | appropriate personal protective equipment.                            |
| Methods and materials | Eliminate sources of ignition.                                        |
| for containment and   | Large Spills: Dike the spilled material, where this is possible.      |
| cleaning up:          | 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     | Provide adequate ventilation. Use care in handling/storage. Obtain    |
| handling:               | 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     | Stored locked up. Keep container tightly closed. Keep out of reach of |
| storage, Including any  | children. Store in a cool dry place out of direct sunlight. Keep in   |
| incompatibilities       | original container.                                                   |

| Occupational exposure limits                                      |            |            |          |
|-------------------------------------------------------------------|------------|------------|----------|
| US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) |            |            |          |
| 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   |

**PRODUCT NAME: GEN-SIL 45** 



| Titanium dioxide                                                                                               | 13463-67-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TWA                                                                                                                                                                                                                        | 10 mg/m3                                                                                          |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Decomposition                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                            | - 6, -                                                                                            |
| Acetic acid                                                                                                    | 64-19-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | STEL                                                                                                                                                                                                                       | 15 ppm                                                                                            |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TWA                                                                                                                                                                                                                        | 10 ppm                                                                                            |
| US. NIOSH: Pocket Guide to Chen                                                                                | nical Hazards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                            |                                                                                                   |
| Decomposition                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                            |                                                                                                   |
| Acetic acid                                                                                                    | 64-19-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | STEL                                                                                                                                                                                                                       | 37 mg/m3<br>15 ppm                                                                                |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TWA                                                                                                                                                                                                                        | 25 mg/m3<br>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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                            |                                                                                                   |
| Appropriate engineering                                                                                        | Provide adequate general                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | and local exhaust. Pr                                                                                                                                                                                                      | ovide eyewas                                                                                      |
| controls:                                                                                                      | station. Pay attention to ventilation such as local exhaust, mechanical and or / door open for at least 24 hours after                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                            |                                                                                                   |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | open for at least 24 h                                                                                                                                                                                                     | ours after                                                                                        |
| Individual protection measure                                                                                  | applications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                            | ours after                                                                                        |
|                                                                                                                | applications. es such as personal protective                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | equipment.                                                                                                                                                                                                                 |                                                                                                   |
| Eye / Face protection:                                                                                         | applications.<br>es such as personal protective of<br>Tightly sealed safety glass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | equipment.                                                                                                                                                                                                                 |                                                                                                   |
| -                                                                                                              | applications. es such as personal protective                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | equipment. es according to EN 16                                                                                                                                                                                           |                                                                                                   |
| Eye / Face protection: Skin / Hand protection:                                                                 | applications.  es such as personal protective of the such as personal protective glass  Tightly sealed safety glass  Wear protective gloves.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | equipment. es according to EN 16 clothing.                                                                                                                                                                                 | 56.                                                                                               |
| Eye / Face protection: Skin / Hand protection: Other:                                                          | applications.  es such as personal protective of the such as personal protective glass afety glass.  Wear protective gloves.  Wear suitable protective of the such as the suitable protective of the such as the s | equipment. es according to EN 16 clothing. are above the applic                                                                                                                                                            | 56.<br>cable exposure                                                                             |
| Eye / Face protection: Skin / Hand protection: Other:                                                          | applications.  es such as personal protective of the such as personal protective glass.  Tightly sealed safety glass.  Wear protective gloves.  Wear suitable protective of the suitabl | equipment. es according to EN 16 clothing. are above the applic d respiratory protect                                                                                                                                      | 56.<br>cable exposure<br>ion.                                                                     |
| Eye / Face protection: Skin / Hand protection: Other: Respiratory protection:                                  | applications.  es such as personal protective of the such as personal protective of the such as personal protective of the such approvements of the such approximates of th | equipment. es according to EN 16 clothing. are above the applic d respiratory protect                                                                                                                                      | 56.<br>cable exposure<br>ion.                                                                     |
| Eye / Face protection: Skin / Hand protection: Other: Respiratory protection: Thermal hazards: General Hygiene | 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 thermanecessary.  Avoid contact with eyes. A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | equipment. es according to EN 16 clothing. are above the applic d respiratory protect I protective clothing,                                                                                                               | able exposure ion.<br>when                                                                        |
| Eye / Face protection: Skin / Hand protection: Other: Respiratory protection: Thermal hazards:                 | applications.  es such as personal protective of Tightly sealed safety glass Wear protective gloves.  Wear suitable protective of airborne concentrations limits, use NIOSH approve Wear appropriate thermanecessary.  Avoid contact with eyes. A do not eat, drink or smoke                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | equipment. es according to EN 16 clothing. are above the applic d respiratory protect I protective clothing, avoid contact with ski                                                                                        | able exposure<br>ion.<br>when<br>in. When usin<br>od or drink.                                    |
| Eye / Face protection: Skin / Hand protection: Other: Respiratory protection: Thermal hazards: General Hygiene | 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 thermanecessary.  Avoid contact with eyes. A do not eat, drink or smoke Wash hands before breaks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | equipment. es according to EN 16 clothing. are above the applic d respiratory protect I protective clothing, avoid contact with ski e. Keep away from for s and immediately aff                                            | able exposure ion. when in. When od or drink. ter handling t                                      |
| Eye / Face protection: Skin / Hand protection: Other: Respiratory protection: Thermal hazards: General Hygiene | applications.  es such as personal protective of Tightly sealed safety glass Wear protective gloves.  Wear suitable protective of airborne concentrations limits, use NIOSH approve Wear appropriate thermanecessary.  Avoid contact with eyes. A do not eat, drink or smoke Wash hands before break product. Contaminated we                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | equipment. es according to EN 16 clothing. are above the applic d respiratory protect I protective clothing, avoid contact with ski e. Keep away from for s and immediately aff ork clothing should n                      | cable exposure ion. when in. When od or drink. ter handling to the allowed                        |
| Eye / Face protection: Skin / Hand protection: Other: Respiratory protection: Thermal hazards: General Hygiene | 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 thermanecessary.  Avoid contact with eyes. A do not eat, drink or smoke Wash hands before breaks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 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 for s and immediately affork clothing should n ndle in accordance wi | cable exposur<br>ion.<br>when<br>in. When usin<br>od or drink.<br>ter handling t<br>ot be allowed |

| 9. PHYSICAL/CHEMICAL CHARAC | TERISTICS        |
|-----------------------------|------------------|
| Appearance                  |                  |
| Form:                       | Paste            |
| Color:                      | Aluminum         |
| Odor:                       | Acetic acid odor |



Odor Threshold: Not available

pH: Not availableMelting point / freezing point: Not availableInitial boiling point and boiling range: Not available

Flash Point: 141.8 °F (> 96 °C) Closed cup

**Evaporative rate:** < 1 (Butyl Acetate = 1)

Flammability (solid, gas): Not applicable

**Upper / Lower flammability or explosive limits:** 

Flammability limit – lower (%):

Flammability limit – upper (%):

Explosive limit – Lower (%):

Explosive limit – Upper (%):

Vapor pressure:

Vapor density:

Relative density:

No data

No data

Not available

Not available

Negligible (25°C)

> 1 (air=1)

.97 (25°C)

Solubility (water):

Not soluble

29 grams per liter

Partition coefficient: Not applicable

(n-octanol / water)

Auto-ignition temperature:No dataDecomposition temperature:Not availableViscosity:Not applicableMolecular weight:Not applicable

#### 10. 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 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 INFORMATION

Information on likely routes of exposure

Ingestion:Expected to be a low ingestion hazard.Inhalation:Prolonged inhalation may be harmful.

Skin contact: No adverse effects due to skin contact are expected.

Eye contact: Direct contact with eyes may cause temporary irritation.

Symptoms related to the Direct contact with eyes may cause temporary irritation.

physical, chemical, and toxicological characteristics:

Information on toxicological effects

Acute toxicity
Toxicological data
Decomposition

CAS # Species Test Results

Acetic acid 64-19-7

Acute Dermal

LD50 Rabbit 1060 mg/kg

Inhalation

LC 50 Guinea 5000 ppm, 1 hours

Pig

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

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 irritation:** Causes serious eye damage. (Acetic acid)

Eye - Rabbit: MILD (Octamethylcycotetrasiloxane)

**Respiratory Sensitization:** Not available.



**Skin Sensitization:** 

**Germ Cell Mutagenicity:** 

**Carcinogenicity:** 

IARC Monographs, Overall Evaluation of Carcinogenicity. OSHA Specifically Regulated Substances (29 CFR

1910.1001-1050):

**Reproductive Toxicity:** 

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

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:

Specific target organ toxicity – repeated exposure:

Not available

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** Species Test Results

Titanium oxide (CAS 13463-67-7)

Aquatic

Crustacea EC50 Water Flea (Daphnia > 1000 mg/l, 48 hours

magna)

Fish LC50 Mummichog (Fundulus > 1000 mg/l, 96 hours

Heteroclitus)

Decomposition

Acetic acid (CAS 64-19-7) Aquatic

Crustacea EC50 Water flea (Daphnia 65 mg/l, 48 hours

Magna)

Fish LC50 Bluegill (Leponis 75mg/l, 96 hours

Macrochirus)

Persistence and degradability: Not available.

Bioaccumulative potential: Bio concentration Factor (BCF) / (Flathead minnow): 12400

Octamethylcyclotetrasiloxane.

Mobility in Soil: Not available.

Other adverse effects: Not available



#### 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<br>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.

www.silco-inc.com

**PRODUCT NAME: GEN-SIL 45**