1. Identification

Product identifier: Crafco Roadsaver Silicone NS Sealant, Roadsaver Silicone SL, Roadsaver Silicone SL Ultra-Low Modulus

Other means of identification: None.

Recommended use: Pavement Joint Sealant

Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information:

Manufacturer: Crafco, Inc.
Address: 6165 West Detroit St.
Chandler, AZ 85226 USA

Contact Name: Jim Chehovits
Telephone: 602-276-0406
E-mail: jim.chehovits@crafco.com

CHEMTREC: 800-424-9300 (North America) +1-703-527-3887 (International)

2. Hazard(s) identification

Physical hazards: Not classified.

Health hazards:

Category 2 Reproductive toxicity

Environmental hazards:

Not classified.

OSHA defined hazards:

Not classified.

Label elements:

Signal word: Warning

Hazard statement: Suspected of damaging fertility or the unborn child. Harmful to aquatic life with long lasting effects.

Precautionary statement:

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. If exposed or if you feel unwell: Get medical advice/attention.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations. See section 13 of this SDS for disposal instructions.

Hazard(s) not otherwise classified (HNOC): None known.

Supplemental information: None.

3. Composition/information on ingredients

Mixtures:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polydimethylsiloxane</td>
<td></td>
<td>9016-00-6</td>
<td>15 - 40</td>
</tr>
</tbody>
</table>
CAS number | Common name and synonyms | %
---|---|---
112945-52-5 | Silica | 0 - 5
108-88-3 | Toluene | 0 - 2

Other components below reportable levels | 40 - 70

**Composition comments**
The full text for all R-phrases is displayed in Section 16 of the SDS.

**4. First-aid measures**

**Inhalation**
If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Skin contact**
IF ON SKIN: Gently wash with plenty of soap and water. If irritation persists get medical attention.

**Eye contact**
Immediately rinse with water for several minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion**
Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.

**Most important symptoms/effects, acute and delayed**
Not available.

**Indication of immediate medical attention and special treatment needed**
In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.

**General information**
If you feel unwell, seek medical advice (show the label where possible). Keep victim warm. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

**5. Fire-fighting measures**

**Suitable extinguishing media**

**Unsuitable extinguishing media**
Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical**
Irritating, corrosive and/or toxic gases or fumes will be released during a fire.

**Special protective equipment and precautions for firefighters**
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Fire fighting equipment/instructions**
In case of fire and/or explosion do not breathe fumes. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

**Specific methods**
In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers.

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

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**
Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Methods and materials for containment and cleaning up**
Stop the flow of material, if this is without risk. Eliminate sources of ignition. Dike far ahead of spill for later disposal. Following product recovery, flush area with water.

**Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment.

**7. Handling and storage**

**Precautions for safe handling**
Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes and clothing. Do not ingest. Wash hands after handling and before eating. When using, do not eat, drink or smoke. Avoid contact during pregnancy/while nursing. Avoid release to the environment.
8. Exposure controls/personal protection

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>US. OSHA Table Z-2 (29 CFR 1910.1000)</th>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td>Ceiling</td>
<td></td>
<td>300 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td></td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. OSHA Table Z-3 (29 CFR 1910.1000)</th>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td>TWA</td>
<td></td>
<td>0.8 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>20 mppcf</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values</th>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td>TWA</td>
<td></td>
<td>20 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. NIOSH: Pocket Guide to Chemical Hazards</th>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica (CAS 112945-52-5)</td>
<td>TWA</td>
<td></td>
<td>6 mg/m3</td>
</tr>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td>STEL</td>
<td></td>
<td>560 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td></td>
<td>150 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>375 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

**Biological limit values**

<table>
<thead>
<tr>
<th>ACGIH Biological Exposure Indices</th>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td>0.3 mg/g</td>
<td>o-Cresol, with hydrolysis</td>
<td>Creatinine in urine</td>
<td>*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.03 mg/l</td>
<td>Toluene</td>
<td>Urine</td>
<td>*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.02 mg/l</td>
<td>Toluene</td>
<td>Blood</td>
<td>*</td>
<td></td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source document.

**Exposure guidelines**

**US - California OELs: Skin designation**
- Toluene (CAS 108-88-3) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**
- Toluene (CAS 108-88-3) Skin designation applies.

**Appropriate engineering controls**
- Provide adequate ventilation if fumes or vapors are generated.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**
- Goggles/face shield are recommended.

**Skin protection**

**Hand protection**
- Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.
- Wear appropriate chemical resistant clothing.

**Respiratory protection**
- In the case of respirable dust and/or fumes, use self-contained breathing apparatus. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Not available.

**General hygiene considerations**
- When using, do not eat, drink or smoke. Use good industrial hygiene practices in handling this material. Wash hands before breaks and immediately after handling the product.

**9. Physical and chemical properties**

**Appearance**
- Paste.

**Physical state**
- Liquid.
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Paste.</td>
</tr>
<tr>
<td>Color</td>
<td>Grey.</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>(&lt; 150 °F (&lt; 65.56 °C))</td>
</tr>
<tr>
<td>Flash point</td>
<td>(&gt; 392.0 °F (&gt; 200.0 °C))</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td></td>
</tr>
<tr>
<td>Flammability limit - lower (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability limit - upper (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive limit - lower (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive limit - upper (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td></td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>(&gt; 700 °F (&gt; 371.11 °C))</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other information</td>
<td></td>
</tr>
<tr>
<td>Percent volatile</td>
<td>(&lt; 5 %)</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1 - 1.5</td>
</tr>
</tbody>
</table>

### 10. Stability and reactivity

**Reactivity**
The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability**
Material is stable under normal conditions. Stable under normal temperature conditions.

**Possibility of hazardous reactions**
Hazardous polymerization does not occur.

**Conditions to avoid**
Heat, flames and sparks. Avoid high temperatures. Temperatures above 100 °C

**Incompatible materials**
Strong acids, alkalies and oxidizing agents.

**Hazardous decomposition products**
Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Toxic gas.

### 11. Toxicological information

**Information on likely routes of exposure**

- **Inhalation**: Health injuries are not known or expected under normal use.
- **Skin contact**: Causes mild skin irritation.
- **Eye contact**: May be irritating to eyes.
- **Ingestion**: May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms related to the physical, chemical and toxicological characteristics**
Not available.
Information on toxicological effects

Acute toxicity

Not classified.

Components

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica (CAS 112945-52-5)</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
</tr>
<tr>
<td>Toluene (CAS 108-88-3)</td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Causes mild skin irritation. Not classified.

Serious eye damage/eye irritation

Not available.

Respiratory or skin sensitization

Respiratory sensitization

Not available.

Skin sensitization

Not available.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Silica (CAS 112945-52-5)  3 Not classifiable as to carcinogenicity to humans.
Toluene (CAS 108-88-3)  3 Not classifiable as to carcinogenicity to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Specific target organ toxicity

- single exposure

Not available.

- repeated exposure

Not available.

Aspiration hazard

Not available.

Chronic effects

Not relevant at normal room temperatures. When heated, harmful vapors may be formed.

12. Ecological information

Ecotoxicity

Contains a substance which causes risk of hazardous effects to the environment.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crafco Roadsaver Silicone NS Sealant, Roadsaver Silicone SL, Roadsaver Silicone SL Ultra-Low Modulus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Water flea (Daphnia magna)</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Coho salmon, silver salmon (Oncorhynchus kisutch)</td>
</tr>
</tbody>
</table>
### Components Test Results

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Polydimethylsiloxane (CAS 9016-00-6)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td><strong>LC50</strong></td>
</tr>
<tr>
<td><strong>Toluene (CAS 108-88-3)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
</tr>
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<td><strong>EC50</strong></td>
</tr>
<tr>
<td>Fish</td>
<td><strong>LC50</strong></td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

### Persistence and degradability
Not available.

### Bioaccumulative potential
Not available.

#### Partition coefficient n-octanol / water (log Kow)

| Toluene | 2.73 |

### Mobility in soil
Not available.

### Other adverse effects
Not available.

### 13. Disposal considerations

#### Disposal instructions
Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Do not dispose of waste into sewer. Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations.

### Hazardous waste code
Not regulated.

#### US RCRA Hazardous Waste U List: Reference

| Toluene (CAS 108-88-3) | U220 |

### 14. Transport information

#### DOT
Not regulated as dangerous goods.

#### IATA
Not regulated as dangerous goods.

#### IMDG
Not regulated as dangerous goods.

### Transport in bulk according to
Annex II of MARPOL 73/78 and the IBC Code
Not available.

### 15. Regulatory information

#### US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

##### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

##### CERCLA Hazardous Substance List (40 CFR 302.4)

| Toluene (CAS 108-88-3) | Listed |

##### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not regulated.
Material name: Crafco Roadsaver Silicone NS Sealant, Roadsaver Silicone SL, Roadsaver Silicone SL Ultra-Low Modulus

16. Other information, including date of preparation or last revision

Issue date: 08-11-2017
Version #: 01
Further information: HMIS® is a registered trade and service mark of the NPCA.
NFPA ratings
- Health: 2
- Flammability: 1
- Instability: 0

References
- ACGIH
- EPA: AQUIRE database
- NLM: Hazardous Substances Data Bank
- US. IARC Monographs on Occupational Exposures to Chemical Agents
- HSDB® - Hazardous Substances Data Bank
- IARC Monographs. Overall Evaluation of Carcinogenicity
- National Toxicology Program (NTP) Report on Carcinogens
- ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Revision information
- Product and Company Identification: Synonyms
- Composition / Information on Ingredients: Ingredients
- Physical & Chemical Properties: Multiple Properties
- Toxicological Information: Toxicological Data
- Ecological Information: Ecotoxicity
- Transport Information: Proper Shipping Name/Packing Group
- Regulatory Information: United States
- HazReg Data: International Inventories
- GHS: Classification