

SHEP SILICONE NON-SAG SHEP SILICONE SELF-LEVELING



1. PRODUCT AND COMPANY IDENTIFICATION

Company	: CrafcO, Inc.	Product Identifier	: CrafcO RoadSaver Silicone NS Sealant, RoadSaver Silicone SL
Address	: 6165 West Detroit St., Chandler, AZ 85226	Other means of identification	: None known.
Contact	: Jim Chehovits	Product Use	: Pavement Joint Sealer
Telephone	: 602-276-0406		
Email	: jim.chehovits@crafcO.com		
Emergency Phone	: 800-424-9300 Chemrec + 1-703-527-3887 (International)		

2. HAZARDS IDENTIFICATION / EXPOSURE LIMITS

Physical Hazards:	Not classified	
Health Hazards:	Reproductive toxicity	Category 2
Environmental Hazards:	Hazardous to the aquatic environment, acute hazard.	Category 2
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.
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 a 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: 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 know.
Supplement Information:	None.

3. HAZARDS COMPONENTS

Mixtures

Chemical Name	CAS Number	%
Polydimethylsiloxane	9016-00-6	15-40
Silica	112945-52-5	0-5
Toluene	108-88-3	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.

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4. FIRST AID MEASURES

Inhalational: 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 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 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 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: Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

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 nozzle, 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.

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 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.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool and well-ventilated place. Keep away from heat and sources of ignition. Keep out of the reach of children. Keep container tightly closed.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

U.S. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
Toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

U.S. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value
Silica (CAS 112945-52-5)	TWA	0.8 mg/m ³
		20 mppcf

U.S. ACGIH Threshold Limit Values

Components	Type	Value
Toluene (CAS 108-88-3)	TWA	20 ppm

U.S. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Silica (CAS 112945-52-5)	TWA	6 mg/m ³
	STEL	560 mg/m ³
Toluene (CAS 108-88-3)		150 ppm
	TWA	375 mg/m ³
		100 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluen	Urine	*
	0.02 mg/l	Toluene	Blood	*

* - 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.
- Hand protection:** Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.
- Other:** 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.
- Thermal hazards:** 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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Paste	Explosive Limit - Lower (%):	Not available.
Physical State:	Liquid	Explosive Limit - Upper (%):	Not available.
Form:	Paste	Vapor Pressure:	Not available.
Color:	Grey	Vapor Density:	Not available.
Odor:	Slight	Relative Density:	Not available.
Odor Threshold:	Not available.	Solubility(ies)	
pH:	Not available.	Solubility (water):	Not available.
Melting Point/Freezing Point:	Not available.	Partition Coefficient:	Not available.
Initial Boiling Point and Boiling Range:	< 150°F (< 65.56°C)	(n-octanol/water)	
Flash Point:	> 392.0°F (> 200.0°C)	Auto-ignition Temperature:	> 700°F (> 371.11°C)
Evaporation Rate:	Not available.	Decomposition Temperature:	Not available.
Flammability (Solid, Gas):	Not available.	Viscosity:	Not available.
Upper/Lower Flammability or Explosive Limits:		Other Information:	
Flammability Limit - Lower (%):	Not available.	Percent Volatile:	< 5%
Flammability Limit - Upper (%):	Not available.	Specific Gravity:	1 - 1.5

10. STABILITY/REACTIVITY

Reactivity:	Not available.
Chemical Stability:	Materials is stable under normal conditions. Stable under normal temperatures conditions.
Possibility of Hazardous Reaction:	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 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:

Ingestion:	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Inhalation:	Health injuries are not known or expected under normal use.
Skin Contact:	Cause mild skin irritation.
Eye Contact:	May be irritating to eyes.
Symptoms Related to the Physical, Chemical and Toxicological Characteristics:	Not available.

Information on Toxicological Effects:

Acute toxicity: Not classified.

Product	Species	Test Results
Crafco Roadsaver Silicone NS Sealant, Roadsaver Silicone SL (CAS Mixture)		
Acute		
Dermal		
LD50	Rabbit	594.9618 ml/kg estimated
Inhalation		
LC50	Mouse	16878.3496 ppm, 24 hours estimated

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11. TOXICOLOGICAL INFORMATION CONTINUED

Product	Species	Test Results	
Oral LD50	Rat	109.7093 g/kg	estimated
Other LD50	Mouse	2489.5566 mg/kg	estimated
	Rat	56204.9023 mg/kg	estimated

Components	Species	Test Results	
Silica (CAS 112945-52-5)			
Acute Oral LD50	Mouse	> 15000 mg/kg	
	Rat	> 22500 mg/kg	
Toluene (CAS 108-88-3)			
Acute Dermal LD50	Rabbit	12124 mg/kg 14.1 ml/kg	
Inhalation LC50	Mouse	5320 ppm,	8 hours
		400 ppm,	24 hours
	Rat	26700 ppm,	1 hour
		12200 ppm,	2 hours
		8000 ppm,	4 hours
Oral LD50	Rat	2.6 g/kg	
Other LD50	Mouse	59 mg/kg	
	Rat	1332 mg/kg	

* 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.
 - U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.
- Reproductive toxicity:** Suspected of damaging fertility or the unborn child.
- Specific target organ toxicity: -single exposure** Not available.
- Specific target organ toxicity: -repeated exposure** Not available.
- Aspiration hazard:** Not available.
- Chronic effects:** Not relevant at normal room temperatures. When heated, harmful vapors may be formed.

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12. ECOLOGICAL INFORMATION

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

Product	Species	Test Results
Crafco Roadsaver Silicone NS Sealant, Roadsaver Silicone SL (CAS Mixture)		
Aquatic		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon, silver salmon (<i>Oncorhynchus kisutch</i>) 5.5 mg/l, 96 hours
Components	Species	Test Results
Polydimethylsiloxane (CAS 9016-00-6)		
Aquatic		
Fish	LC50	Channel catfish (<i>Ictalurus punctatus</i>) 2.36 - 4.15 mg/l, 96 hours
Toluene (CAS 108-88-3)		
Aquatic		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon, silver salmon (<i>Oncorhynchus kisutch</i>) 8.11 mg/l, 96 hours

*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. WASTE DISPOSAL INFORMATION

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.

U.S. RCRA Hazardous Waste U List: Reference

Toluene (CAS 108-88-3) U220

Waste from residues or unused products: Dispose of in accordance with local regulations.

Contaminated packaging: Offer rinsed packaging material to local recycling facilities.

14. TRANSPORTATION 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.

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15. REGULATORY INFORMATION

U.S. 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 18-88-3) Listed.
U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories: Immediate Hazard - No
 Delayed Hazard - Yes
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely Hazardous Substance: Not listed.
SARA 3311/312 Hazardous Chemical: No

SARA 313 (TRI Reporting)

Chemical Name	CAS Number	% by weight
Toluene	108-88-3	0-2

Other Federal Regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List:
 Toluene (CAS 108-88-3)

Clean Air Act (CAA) Section 112 (r) Accidental Release Prevention (40 CFR 68.130):
 Not regulated.

Clean Water Act (CWA) Section 112 (r) (40 CFR 68.130):
 Hazardous substance.

Safe Drinking Water Act (SDWA):
 Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02 (b) and 1310.04(f)(2):
 Toluene (CAS 108-88-3)

DEA Essential Chemical Code Number:
 Toluene (CAS 108-88-3) 6594

Drug Enforcement Administration (DEA). List 1&2, Essential Chemicals (21 CFR 1310.02 (c):
 Toluene (CAS 108-88-3) 35% WV

DEA Essential Chemical Code Number:
 Toluene (CAS 108-88-3) 594

U.S. State Regulations: WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

U.S. Massachusetts RTK - Substance List:
 Silica (CAS 112945-52-5)
 Toluene (CAS 108-88-3)

U.S. New Jersey Worker and Community Right-to-Know Act:
 Toluene (CAS 108-88-3) 500 LBS

U.S. Pennsylvania RTK - Hazardous Substances:
 Silica (CAS 112945-52-5)
 Toluene (CAS 108-88-3)

U.S. Rhode Island RTK: Toluene (CAS 108-88-3)

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15. REGULATORY INFORMATION CONTINUED

U.S. California Proposition 65

U.S. California Proposition 65 - CRT: Toluene (CAS 108-88-3)	Listed date/Developmental Toxin: Listed: January 1, 1991
U.S. California Proposition 65 - CRT: Toluene (CAS 108-88-3)	Listed date/Female Reproductive Toxin: Listed: August 7, 2009

International Inventories

Country(s) or Region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substance (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemicals Substance (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. OTHER INFORMATION

Further Information: HMIS® is a registered trade and service mark of the NPCA.

References: ACGIH
EPA: AQUIRE database
NLM: Hazardous Substances Data Base
US. IARC Monographs on Occupational Exposures to Chemical Agents
HSDB® - Hazardous Substances Data Bank
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 the manufacturers 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: **Composition/Information on Ingredients:** Disclosure Overrides
Physical & Chemical Properties: Multiple Properties
Toxicological Information: Toxicological Data