

1. Product and Company Identification

Material name Crafcro Roadsaver Silicone NS Sealant, Roadsaver Silicone SL
Version # 01
Revision date 05-10-2012
CAS # Mixture
Product use Pavement Joint Sealant
Manufacturer
Manufacturer: Crafcro, Inc.
Address: 420 North Roosevelt Avenue
 Chandler, AZ 85226 USA
Contact Name: Jim Chehovits
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CHEMTREC: 800-424-9300

2. Hazards Identification
Potential health effects

Routes of exposure Inhalation.
Eyes Contact with eyes may cause irritation.
Skin Irritating and defatting to skin. May be absorbed through the skin.
Inhalation Prolonged inhalation may be harmful.

Potential environmental effects

Components of this product are hazardous to aquatic life. May cause long-term adverse effects in the environment. Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
Silica	112945-52-5	0 - 2
TOLUENE	108-88-3	0 - 2
Non-hazardous components	CAS #	Percent
MINERAL FILLER	Mixture	30 - 50
Polydimethylsiloxane	63148-62-9	15 - 35
Silicone	70131-67-8	15 - 35
Methyl Oximino Silane	22984-54-9	0 - 2
Tetra Oximino Silane	34206-40-1	0 - 2
Methyl-Tris-Cyclohexylamino-Silane	15901-40-3	0 - 1

4. First Aid Measures
First aid procedures

Eye contact Immediately rinse with water for several minutes. Get medical attention if irritation develops and persists.
Skin contact IF ON SKIN: Gently wash with plenty of soap and water. If irritation persists get medical attention.
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.
Ingestion Rinse mouth.

General advice Wash contaminated clothing before re-use.

5. Fire Fighting Measures

Flammable properties Fire or excessive heat may produce hazardous decomposition products.

Extinguishing media

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. Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Specific hazards arising from the chemical Irritating, corrosive and/or toxic gases or fumes will be released during a fire. Flammable/poisonous gases may be released upon combustion.

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. Structural firefighters protective clothing will only provide limited protection.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. 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. In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

Hazardous combustion products Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

Personal precautions Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

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

Methods for containment Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up Should not be released into the environment. Dike far ahead of spill for later disposal. Following product recovery, flush area with water.

Never return spills in original containers for re-use.

7. Handling and Storage

Handling 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.

Storage Store in a cool and well-ventilated place. Keep away from heat and sources of ignition.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

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

US. OSHA Table Z-2 (29 CFR 1910.1000)

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

US. OSHA Table Z-3 (29 CFR 1910.1000)

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

Engineering controls Provide adequate ventilation if fumes or vapors are generated.

Personal protective equipment

Eye / face protection Goggles/face shield are recommended.

Skin protection	Wear appropriate chemical resistant clothing.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
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 & Chemical Properties

Appearance	Paste.
Physical state	Paste.
Form	Paste.
Color	Grey.
Odor	Slight.
Odor threshold	Not available.
pH	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Boiling point	< 150 °F (< 65.6 °C)
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	1 - 1.5
Relative density	Not available.
Flash point	> 392 °F (> 200 °C)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	> 700 °F (> 371.1 °C)
Percent volatile	< 5 %
Other data	
Flammability class	Combustible IIIB estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal temperature conditions.
Conditions to avoid	Heat, flames and sparks. Temperatures above 100 °C
Incompatible materials	Strong acids, alkalis 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.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Product	Test Results
Crafco Roadsaver Silicone NS Sealant, Roadsaver Silicone SL (Mixture)	Acute Dermal LD50 Rabbit: 594.9618 ml/kg estimated Acute Inhalation LC50 Mouse: 16878.3496 mg/l estimated Acute Oral LD50 Rat: 109.7093 g/kg estimated Acute Other LD50 Mouse: 2489.5566 mg/kg estimated Acute Other LD50 Mouse: 48.5253 g/kg estimated Acute Other LD50 Rat: 56204.9023 mg/kg estimated Acute Other LD50 Rat: 69.2012 g/kg estimated
Components	Test Results
TOLUENE (108-88-3)	Acute Dermal LD50 Rabbit: 12124 mg/kg

Components

Test Results

Silica (112945-52-5)

Acute Dermal LD50 Rabbit: 14.1 ml/kg
Acute Inhalation LC50 Mouse: 400 mg/l 24 Hours
Acute Inhalation LC50 Rat: 8000 mg/l 4 Hours
Acute Oral LD50 Rat: 5000 mg/kg
Acute Oral LD50 Rat: 2.6 g/kg
Acute Other LD50 Mouse: 59 mg/kg
Acute Other LD50 Mouse: 1.15 g/kg
Acute Other LD50 Rat: 1332 mg/kg
Acute Other LD50 Rat: 1.64 g/kg
Acute Oral LD50 Mouse: > 15000 mg/kg
Acute Oral LD50 Rat: > 22500 mg/kg

Chronic effects

Prolonged inhalation may be harmful.

Carcinogenicity

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

ACGIH Carcinogens

TOLUENE (CAS 108-88-3)

A4 Not classifiable as a human carcinogen.

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.

Reproductive effects

May damage fertility or the unborn child.

12. Ecological Information

Ecotoxicological data

Product

Crafco Roadsaver Silicone NS Sealant, Roadsaver Silicone SL (Mixture)

Test Results

EC50 Daphnia: 431.3473 mg/l 48 hours estimated

EC50 Water flea (Daphnia magna): 5.46 - 9.83 mg/l 48 hr

LC50 Coho salmon, silver salmon (Oncorhynchus kisutch): 5.5 mg/l 96 hr

LC50 Fish: 73.8497 mg/l 96 hours estimated

Components

TOLUENE (108-88-3)

Test Results

EC50 Water flea (Daphnia magna): 5.46 - 9.83 mg/l 48 hours

LC50 Coho salmon, silver salmon (Oncorhynchus kisutch): 5.5 mg/l 96 hours

Polydimethyldioxane (63148-62-9)

LC50 Channel catfish (Ictalurus punctatus): 2.36 - 4.15 mg/l 96 hours

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

Ecotoxicity

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

Environmental effects

Ecological injuries are not known or expected under normal use.

Persistence and degradability

Not available.

13. Disposal Considerations

Disposal instructions

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 in accordance with all applicable regulations.

14. Transport Information

DOT

Not regulated as dangerous goods.

Material name: Crafco Roadsaver Silicone NS Sealant, Roadsaver Silicone SL
5012 Version #: 01 Revision date: 05-10-2012 Print date: 05-10-2012

15. Regulatory Information

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

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))

TOLUENE (CAS 108-88-3) 159 KG_W
50 GALLONS_V

DEA Essential Chemical Code Number

TOLUENE (CAS 108-88-3) 6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

TOLUENE (CAS 108-88-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

TOLUENE (CAS 108-88-3) 6594

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

TOLUENE (CAS 108-88-3) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

TOLUENE (CAS 108-88-3) Listed.

CERCLA (Superfund) reportable quantity

TOLUENE: 1000

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Water Act (CWA) Hazardous substance

Inventory status

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 List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
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)

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

US - California Proposition 65 - CRT: Listed date/Developmental toxin

TOLUENE (CAS 108-88-3) Listed: January 1, 1991 Developmental toxin.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

TOLUENE (CAS 108-88-3) Listed: August 7, 2009 Female reproductive toxin.

US - New Jersey RTK - Substances: Listed substance

Silica (CAS 112945-52-5) Listed.
TOLUENE (CAS 108-88-3) Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Silica (CAS 112945-52-5)
TOLUENE (CAS 108-88-3)

Listed.
Listed.

16. Other Information

Further information

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

HMIS® ratings

Health: 1
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 1
Instability: 0

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.

Issue date

Not available.

This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Product and Company Identification
Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties
Toxicological Information: Toxicological Data
Ecological Information: Ecotoxicity
Transport Information: Material Transportation Information
Regulatory Information: United States