

SAFETY DATA SHEET

FOUR SEASONS

REVISION DATE: 8/18/2017

SECTION I - PRODUCT AND COMPANY IDENTIFICATION





PRODUCT NAME : Four Seasons Silicone Roof Patch & Sealant
PRODUCT GRADE/TYPE : FLASHING GRADE SILICONE CAULK
SDS NUMBER : J253-Sil -G-023
PRODUCT USE : Silicone Sealant
MANUFACTURER : National Coatings Corporation
 1201 Calle Suerte
 Camarillo, CA 93012
www.nationalcoatings.com
PRODUCT INFORMATION : 1-800-423-9557
CHEMTREC NORTH AMERICA : 1-800-424-9300
CHEMTREC INTERNATIONAL : 703-527-3887

SECTION II - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

SKIN SENSITIZER, CATEGORY 1
 Eye Damage/Irritation -Category 2A
 Reproductive Toxicity, Category 2
 Specific Target Organ Toxicity (Single Exposure)-Category 3
 Chronic Aquatic Toxicity, Category 4

GHS LABEL:



Hazard Category	Signal Word	Hazard Statement	Pictogram
Skin Sensitizer Category 1	Warning	H317-May cause an allergic reaction.	
Eye Damage /Irritation Category 2A	Warning	H319-Causes serious eye irritation	
Reproductive Toxicity, Category 2	Warning	H361- Suspected of damaging fertility or the unborn child <...> <<...>> <...> state specific effect if known <<...>> (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	
Specific Target Organ Toxicity, Single Exposure, Category 3	Warning	H335-May cause respiratory irritation or H336-may cause drowsiness of dizziness	
Hazardous to aquatic environment, Chronic Category 4	None	H413- May cause long lasting harmful effects to aquatic life	None

GHS Precaution Phrases:

Hazard Category	Prevention	Response	Storage	Disposal
Skin Sensitization Category 1	P261 P272 P280	P302+P352 P333+P313 P321 P363		P501

Eye Damage /Irritation Category 2A	P264 P280	P305+P351+P338 P337+ P313		
Specific Target Organ Toxicity, Repeated Exposure, Category 2	P260 P264 P270	P309+P311	P405	P501
Reproductive Toxicity, Category 2	P201 P202 P281	P308+P313	P405	P501
Hazardous to aquatic environment, Chronic Category 4	P273			P501

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Weight %	Hazard Class	GHS Hazard Statement	GHS Symbol # (Pictograms)	Pictogram
Liquid Silicone Polymer	70131-67-8	40-50	None	None	None	None
Titanium dioxide (unbound only)	13463-67-7	1-10	None	None	None	None
Synthetic amorphous, pyrogenic silica	112945-52-5	1-3	Skin Irritation, Cat 2 Eye irritation, Cat 2	H315 H319	GHS07	
2-Butanone,O,O',O''-(Methylsilylidyne)Trioxime	22984-54-9	2-7	Skin Irritation, Cat 2 Eye irritation, Cat 2	H315 H319	GHS07	
Octamethylcyclotetrasiloxane	556-67-2	5-15	Reproduction, Cat 3 Aquatic, Chronic, Cat 4	H362 H413	GHS08 GHS09	None None

GHS Pictograms	Hazard Statement
H317	May cause an allergic reaction.
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child <...> <<...>> <...> state specific effect if known <<...>> (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)May cause harm to breast-fed children

H335 H336	<i>May cause respiratory irritation organs affected, May cause drowsiness of dizziness</i>
H413	<i>May cause long lasting harmful effects to aquatic life</i>

P Statements:

Preventive:

- P201:** Obtain special instructions before use.
- P202:** Do not handle until all safety instructions have been read and understood.
- P260:** Do not breathe dust/fumes/gas/mist/vapours/spray.
- P261:** Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264:** Wash ... thoroughly after handling.
- P270:** Do not eat, drink or smoke when using this product.
- P272:** Contaminated work clothing should not be allowed out of the workplace.
- P273:** Avoid release to the environment.
- P280:** Wear protective gloves/protective clothing/eye protection/face protection. [As modified by IV ATP]
- P281:** Use personal protective equipment as required.

Response precautionary statements:

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- P301: IF SWALLOWED:**
 - P302:** If on skin:
 - P314:** Get medical advice/attention if you feel unwell.
 - P352:** Wash with plenty of soap and water.
 - P321:** Specific treatment (see ... on this label).
 - P363:** Wash contaminated clothing before reuse.
 - P305+351+338: IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
 - P308+P313: IF exposed:** Call a POISON CENTER or doctor/physician.
 - P309+P311:** if exposed or if you feel unwell: Call a Poison Center or a doctor/physician
 - P332+P313:** If skin irritation occurs: Get medical advice/attention.
 - P333+P313:** If skin irritation or rash occurs,; Get medical attention/advice
 - P337+P313:** : If eye irritation persists get medical advice/attention.

Storage precautionary statements

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- P405:** Store locked up.

Disposal:

- P501:** Dispose of content/container...in accordance with local/regional/national/ international regulation (to be specified)

SECTION IV – FIRST AID MEASURES

- Eye Contact:** Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from eyeball to ensure thorough rinsing. Get immediate medical attention.
- Skin Contact:** Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention.
- Inhalation:** Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Get medical attention immediately.
- Ingestion :** If ingested, do not induce vomiting unless directed to do so by a medical personnel. Get medical attention.

SECTION V – FIRE-FIGHTING MEASURES

Suitable Extinguishing Media : Use dry chemical, foam or carbon dioxide, halon, water spray to extinguish fire.

Unusual Fire and Explosion Hazards:

Explosion Sensitivity to Mechanical Impact: Not Sensitive

Explosion Sensitivity to Static Discharge : Not Sensitive

Special protective action for fire-fighters: Water should be used to cool fire-exposed containers, structures and to protect personnel. Use water to dilute spills and flush them away from sources of ignition. Do not flush down sewers or other drainage systems. Exposed fire-fighters must wear NIOSH approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment.
Keep people away from and upwind of spill/leak.
Material can create slippery conditions.

Environmental Precautions: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods of Cleaning up: Contain spills immediately with inert materials (e.g. sand, warth).
Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

SECTION VII – HANDLING AND STORAGE

Precautions for safe handling:

Avoid breathing dust, vapor or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Use personal protective equipment in handling and observe personal hygiene after use of the product.

Conditions for safe storage : **Storage :** Keep containers tightly closed in a dry and cool place.
ventilated place.

Storage Period: 12 months

Keep container closed when not in use. Protect from freezing.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Component	CAS #	ACGIH TWA	OSHA TWA	WEEL
Liquid Silicone Polymer	70131-67-8	Not Listed	Not Listed	Not Listed
Limestone	1317-65-3	10 mg/m ³	15 mg/m ³	10 mg/m ³
Titanium dioxide (unbound only)	13463-67-7	10 mg/m ³	10 mg/m ³	10 mg/m ³
Silicon dioxide	112945-52-5	6 mg/m ³	10 mg/m ³	3 mg/m ³ -respirable Dust
2-Butanone,O,O',O''-(Methylsilylidyne)Trioxime	22984-54-9	Not Listed	Not Listed	Not Listed
Octamethylcyclotetrasiloxane	556-67-2	Not Listed	Not Listed	Not Listed

Engineering Controls: : Mechanical local exhaust ventilation at point of containment release.

Protective Measures : Employees should wash their hands and face before eating, drinking or using tobacco products. Educate and train employees in the safe use and handling of this product.
EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE.

- Eye/face Protection** : Safety glasses with side-shields.
Skin Protection : Impervious (Neoprene gloves)
Respiratory Protection : Use only with ventilation to keep levels below exposure guidelines reported in this document. If not sure, and/or not able to monitor, use Stae or federally approved supplied air-respirator. Wear suitable respirator (MSHA/NIOSH approved or equivalent) where exposure limits are exceeded.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: White Viscous
 Odour: Mild odor
 Odour threshold: Not available
 pH: Not available
 Melting point/freezing point: Not available
 Boiling Point/boiling range: Not available
 Flash Point: >200°F (>93.33°C)
 Evaporation Rate: Not available
 Flammability: Not available
 Upper/Lower Flammability or explosive limits: Not available
 Vapor Pressure: Not available
 Vapor density: Not available
 Relative density: Not available
 Solubility: in water: Not available
 Partition Coefficient: n-octanol/water: Not available
 Auto-ignition temperature: Not available
 Decomposition temperature: Not available
 Viscosity: Not determined
 VOC Content g/l: Not available

Note: The above data are typical values and must not be construed as a specification.

SECTION X – STABILITY AND REACTIVITY

- Reactivity:** Moisture cure product
Chemical Stability: Stable
Possibility of hazardous reactions: None known.
Incompatible Materials: acids, oxidizing agents, isocyanates
Hazardous decomposition: By Thermal decomposition: carbon monoxide, carbon dioxide, Oxides of nitrogen (NOx), other potentially toxic fumes, dense black smoke.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity:

Component	Acute Oral	Acute Dermal	Acute Inhalation
Titanium Dioxide	LD50 rat >5000 mg/kg	LD50:>5000 mg/kg (Rabbit)	LC50/4h/rat (dust/mist):>6.82 mg/l, 4 h (Rat)
Synthetic amorphous, pyrogenic silica	LD50 rat =3160 mg/kg LD50 mouse=5500 mg/kg		
Octamethylcyclotetrasiloxane	LD50 rat-1540mg/kg	LD50 rat >2400mg/kg	LC50 >12.7 mg/kg/4 hr

Acute Toxicity:

Skin/Eye Irritation:

Titanium Dioxide Mixture Rabbit, Exposure Time, 24 h, Non-Irritating
Not available

Mutagenicity:

Titanium Dioxide with/without Mixture Genetic Toxicity in Vitro: Ames: negative (Salmonella typhimurium, Metabolic Activation:
Genetic Toxicity in Vivo: Drosophila SLRL test: negative (Drosophila melanogaster)
Not available

Carcinogenicity:

Titanium dioxide (Ti-Pure, DuPont) Rat, Male/Female, inhalation-According to IARC, several rat inhalation and intratracheal installation studies using titanium dioxide have shown increases in benign and malignant lung tumors.
Based upon all study results, DuPont scientists conclude that titanium dioxide will not cause lung cancer or chronic respiratory diseases in humans at concentrations experience in the workplace.
Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and cancer. Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints."
From occupational sources) (Group 1-Carcinogenic to humans)
Mixture Not available

Sensitization:

Titanium dioxide Dermal: non-sensitizer (Guinea pig, Maximization Test), non-sensitizer (Human, Patch Test)
Repeated Dose toxicity: 28 days, Inhalation: NOAEL: 35mg/m3, (Rat)
Short term-not possible; long term-yes; products of degradation are less toxic than the product itself.

Reproductive toxicity: Octamethylcyclotetrasiloxane is listed by the European Chemical Commission as a reproductive hazard causing harmful effects to fertility or the unborn child.

Other Toxicological Information:

*Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and cancer. Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints."

SECTION XII - ECOLOGICAL INFORMATION**Ecotoxicity:**

Titanium dioxide Aquatic Toxicity: 96 hr LC50: Fathead minnow>1,000mg/l; LC50: > 1000 mg/l (Golden Orfe (Leuciscus idus), 48 hours) ;
Acute Toxicity to Aquatic invertebrates: EC50> 3mg/l (Water Flea (Daphnia Magna))
Toxicity to Microorganisms : EC50> 10,000 mg/l, (Pseudomas fluorescens, 24 h)

No specific data is available for this product on environmental stability, effect on plants or animals nor on aquatic life. However, release of this product may have long term effect on the aquatic environment.

Persistence and Degradability, Bioaccumulative Potential, Mobility in Soil: Not available for other components and mixtures in the products listed

SECTION XIII – DISPOSAL INFORMATION

Environmental Precautions:

Preparing Wastes for Disposal: Waste disposal must be in accordance with appropriate Federal, State and local regulations, those of Canada, Australia, EU members States and Japan.

RCRA Waste Code: None Listed

EU Waste Code: Not Listed.

Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Empty Container Precautions:

Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

SECTION XIV – TRANSPORT INFORMATION

US DOT; IATA; IMO; ADR:

This product is NOT classified as Dangerous Good as defined by 49 CFR 172.101 by the U.S. Department of Transportation.

Proper shipping Name : Non-regulated when shipped ground or rail within the U. S.A.

UN Number : Not applicable

Transport Hazard Class : None

Packing Group : None

Land Transport (DOT) : Non-Regulated- No labels required

North American Emergency Response Guidebook Number: (2004)-None

Marine Pollutant: not classified as Marine Pollutant (as defined by 49 CFR 172.0101, Appendix B

Sea Transport (IMDG) : This product is classified as Dangerous Goods by the International Maritime Organization.

Air Transport (ICAO/IATA) : Not classified as Dangerous Goods, by rules of IATA

Transport Canada, Transportation of Dangerous Goods Regulations: Not classified as Dangerous Goods, per regulations of Transport Canada

International Maritime Organization (IMO) designation: Not classified as Dangerous Goods by Maritime Organization.

European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR); Not classified as

Dangerous Goods by the United Nations Economic Commission for Europe

Harmonized Tarriff Code : Unknown

Special Precautions : No data available

SECTION XV – REGULATORY INFORMATION

UNITED STATES REGULATIONS:

SARA Reporting Requirements: This product is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows:

Unites States TSCA Inventory (US.TSCA): All components of this product are in compliance with the inventory listing requirement of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SARA 311/312:

Acute Health: Yes Chronic Health: No Fire: No Reactivity: No

CERCLA Information (40CFR302.4): NONE KNOWN

U.S. SARA Threshold Planning Quantity: There are no specific Threshold Planning Quantities for this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lb (4540 kg) may apply per 40CFR 370.20:

Proposition 65 : This product does not contain a chemical known to cause cancer or reproductive toxicity:

Canadian Regulations :

Canadian DSL/NDSL Inventory Status: All of the components of this product are on the DSL inventory.

Canadian Environmental Protection Act (CEPA) Priorities Substances List: NONE

Canadian WHMIS Classification and Symbols: This product complies with WHMIS 2015

European Economic Community Information:

EU Labeling and and Classification: Classification of the mixture according to Regulation (EC) No1272/2008. See Section 2 for details.

Other information: All of the components of this product are listed or exempt from listing of the Chemical Inventories of the following countries: Australia (AICS), Japan (MITI and ENCS), Korea (ECL), Philippines (PICCS) an Swiss Giftliste List of Toxic Substances.

SECTION XVI -

HMIS Rating:

Legend:

Acronym	Meaning
ACGIH	American Conference of Governmental Hygienists
OSHA	Occupational Safety Health Administration
SARA	Superfund Amendment Reauthorization Act
TRI	Toxic Release Inventory
GHS	Globally Harmonized System (of Classification and Labeling of Chemicals)
DOT	Department of Transportation
IMDG	International Maritime Dangerous Goods
ICAO	International Civil Aviation Organization
IATA	International Air Transport Association

The information in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. The information relates only to the specific material designated and may not be valid for such material used in combination with or any other material in any process, unless specified in the test.

Version #: GHS-023

Revision Date: 7/25/16

Supersedes Last Revision: 11/30/15

This SDS adheres to the standards and regulatory requirements of the United States and has been written under the guidance of the Globally harmonized System of Classification and Labeling of Chemicals.

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