

1. IDENTIFICATION OF SUBSTANCE

PRODUCT NAME	Rugged Si92
PRODUCT USE	Silicone Roof Coating
USES ADVISED AGAINST	No specific uses advised against are identified.
SUPPLIER IDENTIFICATION	Rugged Coatings 2720 Southeastern Cir Birmingham, AL 35215
EMERGENCY TELEPHONE	(205) 440-4996

2. HAZARD(S) IDENTIFICATION

GHS CLASSIFICATIONS:

Skin Irritation Category	2
Skin Sensitization Category	1
Reproductive Toxicity Category	2
Chronic Aquatic Toxicity	3
Eye Irritation Category	2

HAZARD STATEMENTS

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H351	Suspected of causing cancer
H412	May cause long lasting harmful effects to aquatic life
H335	May cause respiratory irritation

GHS PRECAUTIONS

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
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

GHS RESPONSE STATEMENTS

P321	Specific treatment is urgent (see Section 4 First Aid measures)
P330	Rinse mouth
P363	Wash contaminated clothing before reuse
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P302+P352	IF ON SKIN: Wash with soap and water

P308+P313	IF exposed or concerned: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P362+P364	Take off contaminated clothing and wash it before reuse
P305+P351+P338	IF IN EYES rinse cautiously with water for several minutes. Remove contact lenses if present and continue rinsing

GHS STORAGE STATEMENTS

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up

GHS DISPOSAL STATEMENT

P501	Dispose of contents/container in accordance with existing federal, state, and local environmental control laws.
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LABEL ELEMENTS

PICTOGRAM



SIGNAL WORD	Warning
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ACUTE TOXICITY

EYES	May cause irritation & burns
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SKIN	Minor potential for irritation
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INHALATION	Liquid may cause irritation
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INGESTION	May cause irritation & burns
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CONDITIONS AGGRAVATED	Unknown
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CHRONIC EFFECTS	Prolonged or repeated skin contact may cause skin reactions.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURES

Polydimethylsiloxane hydroxy terminated CAS number: 70131-67-8	40 - <85%
Nepheline Syenite CAS number: 37244-96-5	0 - <30%
2-Butanone,0,0', 0"- (Methylsilylidyne)Trioxime CAS number: 22984-54-9	5 - <11%
Dimethyl Siloxane CAS number: 63148-62-9	0 - <15%
Titanium Dioxide CAS number: 13463-67-7	0 - <15%
Octamethylcyclotetrasiloxane CAS number: 1336-21-6	1 - <6%
N-(3-(Trimethoxysilyl)-1,2-ethanediamine CAS number: 1760-24-3	<1%

COMPOSITION COMMENTS

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

4. FIRST-AID MEASURES

GENERAL INFO	If symptoms ensue, move to fresh air. If breathing is difficult, give oxygen.
INGESTION	Consult physician.
SKIN CONTACT	Clean affected area with soap and plenty of water.
EYE CONTACT	Rinse opened eye for at least 15 minutes under running water. Remove contact lenses if present and easy to do so, and continue rinsing.
NOTES TO PHYSICIAN	Treat symptomatically

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fire. media

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

ADVICE FOR FIREFIGHTERS

Protective actions during firefighting	Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate for firefighters protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Person-Related Safety Precautions	Avoid contact with skin and eyes.
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ENVIRONMENTAL PRECAUTIONS

Measures for Environmental Protection	Cover and contain spill with absorbent material. Collect for proper disposal according to local, state, and federal regulations.
Small Spills	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece) clean surface thoroughly to remove residual contamination.
Large Spills	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

7. HANDLING AND STORAGE

Information for Safe Handling	Avoid contact with skin or inhalation.
Storage Requirements	Store in dry, well ventilated area. Avoid contact with moisture. Keep containers tightly closed. Store between 60°F-100°F. Material may settle.
Regulatory Requirements	Store according to all local, state, and federal regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME / CAS NO.	OSHA EXPOSURE LIMITS	ACGIH EXPOSURE LIMITS	OTHER EXPOSURE LIMITS
Siloxanes and silicones, dimethyl, hydroxy-terminated 70131-67-8	Not Established	Not Established	Not Established
Octamethylcyclotetrasiloxane 556-67-2	Not Established	Not Established	Not Established
2-Butanone, O,O',O''-(methylsilylidyne) trioxime 22984-54-9	Not Established	Not Established	Not Established
Titanium dioxide 13463-67-7	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	Not Established
N-(3-(Trimethoxysilyl)-1,2-ethanediamine 1760-24-3	Not Established	Not Established	Not Established

Engineering Controls:	No special measures required.
Protective and Hygienic Measures:	Usual precautionary measures should be adhered to when handling chemicals.
Personal Protective Equipment:	
Respiratory Protection:	None required if work area is properly ventilated.
Hand Protection:	Protective butyl rubber or nitrile rubber gloves.
Eye Protection:	Chemical safety goggles.
Body Protection:	Impervious protective work clothing. Launder separately.
Contaminated Gear:	Observe local requirements. Dispose of in accordance with local/state/federal regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Various colored liquid	Odor:	Mild
Vapor Pressure:	N/A	Odor threshold:	N/A
Vapor Density:	N/A	pH:	N/A
Specific Gravity	1.30	Melting point:	N/A
Freezing point:	N/A	Solubility:	N/A
Boiling range:	2230 - 3000°C	Flash point:	>200°F, 93°C
Evaporation rate:	N/A	Flammability:	N/A
Explosive Limits:	N/A	Partition coefficient	N/A (n- octanol/water):
Autoignition temperature:	N/A	Decomposition temperature:	N/A

10. STABILITY AND REACTIVITY

STABILITY	Product is stable.
INCOMPATIBLE MATERIALS:	Avoid contact with moisture, strong acids, strong bases, oxidizing and reducing agents.
HAZARDOUS POLYMERIZATION:	Not expected to occur.
DANGEROUS PRODUCTS OF DECOMPOSITION:	Oxides of carbon, oxides of nitrogen, oxides of silicon.
CONDITIONS TO AVOID	Heat and sources of Ignition.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: Toxicity data is available for this product:

CAS# 13463-67-7 LD50 Acute Oral >10000 mg/kg (Rat)

CAS# 556-67-2 LD50 Inhalation >12.7 mg/kg/4Hr (Rat)

CAS# 556-67-2 LD50 Acute Oral 1540 mg/kg (Rat)

CAS# 556-67-2 LD50 Acute Dermal >2400 mg/kg (Rat)

ACUTE TOXICITY Based on available data, the classification criteria are not met

SKIN CORROSION / IRRITATION Skin Irritation Category 2

SERIOUS EYE DAMAGE / IRRITATION Eye Irritation Category 2A

RESPIRATORY OR SKIN SENSITIZATION Skin Sensitization Category 1

GERM CELL MUTAGENICITY Based on available data, the classification criteria are not met

CARCINOGENICITY Carcinogenicity Category 2

REPRODUCTIVE TOXICITY Reproductive Category 2

STOT-SINGLE EXPOSURE Based on available data, the classification criteria are not met

STOT-REPEATED EXPOSURE Based on available data, the classification criteria are not met

ASPIRATION HAZARD Based on available data, the classification criteria are not met

12. ECOLOGICAL INFORMATION

TOXICITY: No specific data is currently available on this product's effects on aquatic life, however release of this product may have long term effects on the aquatic environment.

SPECIFIC COMPONENT DATA:

Octamethylcyclotetrasiloxane (556-67-2)

Test & Species Conditions

96 Hr LC50 Brachydanio rerio >500 mg/L

96 Hr LC50 Lepomis macrochirus >1000 mg/L

24 Hr EC50 Daphnia magna 25.2 mg/L

PERSISTENCE AND DEGRADABILITY: No specific data available on this product.

BIOACCUMULATIVE POTENTIAL: No specific data available on this product.

MOBILITY IN SOIL: No specific data available on this product.

RESULTS OF PBT AND VPVB ASSESMENT: No specific data available on this product.

OTHER ADVERSE EFFECTS: No specific data available on this product.

WATER ENDANGERMENT CLASS: Not believed to be water endangering in accordance with EU Guideline 91/155-EWG.

AT PRESENT THERE ARE NO ECOTOXICOLOGICAL ASSESSMENTS FOR THIS PRODUCT.

13. DISPOSAL CONSIDERATIONS

Recommendation: Observe local requirements. Dispose of in accordance with local/state/federal regulations.

Empty Container Precautions: Recondition or dispose of empty container in accordance with governmental regulations. If container is to be disposed, ensure all product residues are removed and container is empty prior to disposal.

14. TRANSPORT INFORMATION

US DOT; IATA; IMO; ADR:

THIS PRODUCT IS CLASSIFIED AS DANGEROUS GOODS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

This product has been tested to the ASTM D-4206 Standard and determined that it does not sustain combustion. As result it is exempt from regulations when shipped ground or rail within the U.S.A.

PROPER SHIPPING NAME: Non-Regulated when shipped ground or rail with U.S.A.

HAZARD CLASS NUMBER AND DESCRIPTION: None

UN IDENTIFICATION NUMBER: None

PACKING GROUP: None

DOT LABEL(S) REQUIRED: None

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2016): None

MARINE POLLUTANT: This product's ingredients that are not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is not classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

This product is not classified as Dangerous Good by International Air Transport.

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:

This product is not classified as Dangerous Goods by the International Maritime Organization.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):

This product is not classified by the United Nations Economic Commission for Europe to be dangerous goods.

HARMONIZED TARIFF CODE: Not Listed

15. REGULATORY INFORMATION

UNITED STATES REGULATIONS

SARA REPORTING REQUIREMENTS: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None.

TSCA: All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

SARA 311/312: Acute Health: Yes Chronic Health: Yes Fire: No Reactivity: No

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 (4,540 kg) may apply, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):

WARNING! This product can expose you to chemicals such as Titanium Dioxide, which is known to the State of California to cause cancer. For more information, go to WWW.P65Warning.ca.gov.

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: All of the components of this product are on the DSL Inventory

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: Classified per WHMIS 2015

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

EU LABELING AND CLASSIFICATION: Classification of the mixture according to Regulation (EC) No1272/2008. See section 2 for details.

AUSTRALIAN INFORMATION FOR PRODUCT:

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: All components of this product are listed or exempt from listing on the AICS.

STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Not applicable.

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Listed or exempt from listing

Australian Inventory of Chemical Substances (AICS): Listed or exempt from listing

Korean Existing Chemicals List (ECL): Listed or exempt from listing

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed or exempt from listing

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed or exempt from listing

Swiss Giftlist List of Toxic Substances: Listed or exempt from listing

U.S. TSCA: Listed