

**Safety Data Sheet**  
**DynaSHIELD Silicone HS**

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**SECTION 1: Identification**

**Product identifier**

Product name **DynaSHIELD Silicone HS**  
Product number 7893333  
Brand DynaSHIELD

**Recommended use of the chemical and restrictions on use**  
Roof repair and/or reflective coating.

**Supplier's details**

Name Ace Roof Coatings, Inc.  
Address 4821 Grisham Drive  
Rowlett, TX 75088  
United States  
Telephone (972) 864-0240  
Fax (469) 366-9219  
email info@arcoat.com

**Emergency phone number(s)** **INFOTRAC - 800-535-5053**  
OUTSIDE UNITED STATES CALL COLLECT 1-352-323-3500

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**SECTION 2: Hazard identification**

**Classification of the substance or mixture**

- Toxic to reproduction (chapter 3.7), Cat. 2
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 4
- Acute toxicity, dermal (chapter 3.1), Cat. 4

**GHS label elements, including precautionary statements**

**Pictogram**



**Signal word**

**Warning**

**Hazard statement(s)**

H312 Harmful in contact with skin  
H315 Causes skin irritation  
H361 Suspected of damaging fertility or the unborn child  
H361f Suspected of damaging fertility  
H413 May cause long lasting harmful effects to aquatic life

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### Precautionary statement(s)

P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with Federal, State and local regulations.
P302+P352	IF ON SKIN: Wash with plenty of water/soap.
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see first aid instructions on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.

### Other hazards which do not result in classification

No data available.

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## SECTION 3: Composition/information on ingredients

### Mixtures

#### Hazardous components

##### 1. Liquid Silicone Polymer

Concentration	45 - 60 % (Weight)
EC no.	Not Listed
CAS no.	Non-Hazardous

##### 2. Nepheline Syenite

Concentration	15 - 30 % (Weight)
CAS no.	37244-96-5

##### 3. TITANIUM DIOXIDE

Concentration	5 - 15 % (Weight)
CAS no.	13463-67-7

##### 4. OCTAMETHYLCYCLOTETRASILOXANE

Concentration	5 - 15 % (Weight)
EC no.	209-136-7
CAS no.	556-67-2
Index no.	014-018-00-1

- Toxic to reproduction (chapter 3.7), Cat. 2

- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 4

H361f Suspected of damaging fertility

H413 May cause long lasting harmful effects to aquatic life

##### 5. 2-Butanone, 2,2',2''-[O,O',O''-(methylsilylidyne)trioxime]

Concentration	2 - 7 % (Weight)
CAS no.	22984-54-9

##### 6. Silica, Amorphous, fumed, crystal-free

Concentration	Not specified
CAS no.	112945-52-5

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### 7. 2-Butanone, 2,2',2'',2'''-(O,O',O'',O'''-silanetetrayltetraoxime)

Concentration 1 - 3 % (Weight)

CAS no. 34206-40-1

#### Trade secret statement (OSHA 1910.1200(i))

Specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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## SECTION 4: First-aid measures

### Description of necessary first-aid measures

If inhaled	If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.
In case of skin contact	Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.
In case of eye contact	If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation develops.
If swallowed	If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.
Personal protective equipment for first-aid responders	Emergency responders must wear the proper personal protective equipment (and have appropriate fire-suppression equipment) suitable for the situation to which they are responding.

### Most important symptoms/effects, acute and delayed

Exposure to the product may cause skin and eye irritation. Prolonged exposure may cause skin sensitization. Ingestion is not a normal route of exposure under normal product use. If swallowed, product may cause gastrointestinal irritation. This product contains an ingredient that is suspected of causing cancer and/or reproductive harm.

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## SECTION 5: Fire-fighting measures

### Suitable extinguishing media

Carbon dioxide, foam, dry chemical, halon, water spray, sand, limestone powder.

### Specific hazards arising from the chemical

No data available.

### Special protective actions for fire-fighters

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

## **SECTION 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

Personnel should be trained for spill response operations.

### **Methods and materials for containment and cleaning up**

Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Soak up with a noncombustible absorbent material and place in an appropriate container for disposal. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

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## **SECTION 7: Handling and storage**

### **Precautions for safe handling**

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors/mists generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

### **Conditions for safe storage, including any incompatibilities**

Keep container tightly closed and in a dry and cool place.

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## **SECTION 8: Exposure controls/personal protection**

### **Control parameters**

#### **1. Titanium dioxide - Total dust (CAS: 13463-67-7)**

PEL (Inhalation): 15 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### **2. Titanium dioxide - Total dust (CAS: 13463-67-7)**

PEL (Inhalation): See PNOR (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### **3. Titanium dioxide - Total dust (CAS: 13463-67-7)**

REL (Inhalation): Ca, (ultrafine particles), 2.4 mg/m<sup>3</sup> (fine), 0.3 mg/m<sup>3</sup> (ultrafine), See Appendix A, See Appendix C (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### **4. OCTAMETHYLCYCLOTETRA-SILOXANE (CAS: 556-67-2 EC: 209-136-7)**

TWA (Inhalation): 0.310 (OSHA)

### **Appropriate engineering controls**

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

### **Individual protection measures, such as personal protective equipment (PPE)**

#### **Eye/face protection**

Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133.

#### **Skin protection**

Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138.

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### Body protection

Use body protection appropriate to prevent contact (e.g. lab coat, overalls).

### Respiratory protection

Maintain airborne contaminant concentrations below guidelines listed above, if applicable.

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form	Viscous liquid in various colors including white, tan, light gray and dark gray
Odor	Slight
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	128°F
Evaporation rate	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Solubility(ies)	No data available.

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## SECTION 10: Stability and reactivity

### Chemical stability

Product is stable.

### Conditions to avoid

Heat and sources of ignition.

### Incompatible materials

None known.

### Hazardous decomposition products

When heated to decomposition this product produces noxious gases such as CO, CO<sub>2</sub>, and others.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

TOXICITY DATA: Toxicity data is available for this product:

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

CAS# 112945-52-5 LD50 Acute Oral 3160 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

#### Skin corrosion/irritation

This product is considered a skin sensitizer.

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### Serious eye damage/irritation

Contact with this product can be irritating to eyes.

### Carcinogenicity

SUSPECTED CANCER AGENT: One or more of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore are considered to be, or suspected to be a cancer-causing agent by these agencies.

Titanium dioxide (13463-67-7)

ACGIH: A4 – Not classifiable as a Human Carcinogen

NIOSH: Potential occupational carcinogen

IARC: Monograph 93 posted, Monograph 47 [1989] (Group 2B (possibly carcinogenic to humans))

### Reproductive toxicity

Octamethylcyclotetrasiloxane CAS# 556-67-2 is listed by the European Chemical Commission as a reproductive hazard causing harmful effects to fertility or the unborn child.

### STOT-single exposure

No data available.

### STOT-repeated exposure

No data available.

### Aspiration hazard

Inhalation hazards are not expected because of low vapor pressure.

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## SECTION 12: Ecological information

### Toxicity

No specific data is currently available on this product's effects on plants or animals.

### Bioaccumulative potential

No specific data is available for this product, however this product is not expected to be readily biodegradable.

### Other adverse effects

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

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## SECTION 13: Disposal considerations

### Disposal of the product

Liquid waste must be disposed of in accordance with Federal, State and local regulations. Incineration is the preferred method.

### Disposal of contaminated packaging

Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.

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### Waste treatment

This product, as supplied, is regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. If discarded in its purchased form, this product is a RCRA hazardous waste. It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or residue of the product remains classified a hazardous waste as per 40 CFR 261, Subpart C. State or local regulations may also apply if they differ from the federal regulation.

### Sewage disposal

Chemical waste, even small quantities should never be poured down drains, sewers or waterways.

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## SECTION 14: Transport information

### DOT (US)

UN Number: UN1993

Class: Class 3 Flammable

Packing Group: PGIII

Proper Shipping Name: Flammable Liquid, n.o.s.

Reportable quantity (RQ):

Marine pollutant: This products ingredients that are not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

Poison inhalation hazard:

### IMDG

UN Number: UN1993

Class: Class 3 Flammable

Packing Group: PGIII

EMS Number: 128

Proper Shipping Name: Flammable Liquid, n.o.s.

### IATA

UN Number: UN1993

Class: Class 3 Flammable

Packing Group: PGIII

Proper Shipping Name: Flammable Liquid, n.o.s.

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### New Jersey Right To Know Components

Common name: TITANIUM DIOXIDE

CAS number: 13463-67-7

#### Pennsylvania Right To Know Components

Chemical name: Titanium oxide

CAS number: 13463-67-7

#### Toxic Substances Control Act (TSCA) Inventory

All components

#### Chemical Safety Assessment

This material or its components are listed on the TSCA Chemical Substance Inventory and is in compliance with all applicable rules and orders. One or more of the components may be exempt from listing on the TSCA Inventory.

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### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard, Fire Hazard

### HMIS Rating

DynaSHIELD Silicone HS	
HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

### NFPA Rating



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## SECTION 16: Other information

### Further information/disclaimer

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license of valid patents.

### Preparation information

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