



Material Name:
**SmartRoof™ 1-Coat High Solids
 Silicone Roof Coating**

Section 1 - Chemical Product and Company Identification

Manufacturer Information

West Development Group
 300 Commerce Drive
 LaGrange, OH 44050
 Phone: 440-355-4682

Emergency Numbers:

CHEMTREC (USA): 800-424-9300
 CHEMTREC (Intl): 703-527-3887
 National Poison Control: 800-222-1222

Section 2 - Hazards Identification

Emergency Overview

May cause eye and skin irritation.

Potential Health Effects: Eyes

May cause irritation.

Potential Health Effects: Skin

May cause irritation.

Potential Health Effects: Ingestion

Not a likely route of exposure under normal product use conditions. If swallowed, may cause gastrointestinal irritation.

Potential Health Effects: Inhalation

Not expected due to low vapor pressure.

HMIS Ratings:

Health: 1 Fire: 0 HMIS Reactivity: 0 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Section 3 - Composition/Information on Ingredients

CAS#	Component
63148-62-9	Poly(dimethylsiloxane)
37244-96-5	Nepheline syenite
22984-54-9	2-Butanone, O,O',O''-(methylsilylidyne)trioxime
13463-67-7	Titanium dioxide
112945-52-5	Silica, amorphous, fumed, crystal-free
556-67-2	Octamethylcyclotetrasiloxane
96-29-7	Methyl ethyl ketoxime
34206-40-1	2-Butanone, O,O',O'' O'''-silanetrayltetraoxime
541-05-9	Cyclotrisiloxane, hexamethyl-

Section 4 - First Aid Measures

First Aid: Eyes

In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes.

First Aid: Skin

For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice.

First Aid: Inhalation

None necessary

Section 5 - Fire fighting Measures

General Fire Hazards

See Section 9 for Flammability Properties.
 This material does not present any unusual fire or explosion hazards.

Hazardous Combustion Products

Oxides of carbon, formaldehyde, silicon dioxide and hydrocarbons.

Extinguishing Media

Use water mist, carbon dioxide, sand, dry chemical or alcohol-resistant foam.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

NFPA Ratings:

Health: 1 Fire: 0 Reactivity: 0 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Section 6 - Accidental Release Measures

Containment Procedures

Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material. Close leak if possible without risk.

Clean-Up Procedures

Take up mechanically and dispose of according to local, state, and federal regulations. For small amounts: Absorb with a liquid binding material such as diatomaceous earth. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

Disposal of spilled materials should be in accordance with local, state, and federal regulations.



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Section 7 - Handling and Storage

Handling Procedures Avoid contact with skin and eyes. Spilled substance increases risk of slipping.
Storage Procedures Keep container tightly closed and in a dry and cool place.

Section 8 - Exposure Controls/Personal Protection

A: Component Exposure Limits
Titanium dioxide (13463-67-7) ACGIH: 10 mg/m3 TWA
OSHA: 10 mg/m3 TWA (total dust)
Engineering Controls Use with adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment:
Eyes/Face Safety glasses with side shields.
Personal Protective Equipment:
Skin Use appropriate hand protection.
Personal Protective Equipment:
Respiratory Not normally required.
Personal Protective Equipment:
General Eye wash fountain is recommended.

Section 9 - Physical & Chemical Properties

Appearance: Clear
Physical State: Liquid
Vapor Pressure: ND
Boiling Point: ND
Solubility (H2O): ND
Evaporation Rate: ND
Octanol/H2O Coeff.: ND
Flash Point Method: ND
Odor: None
pH: ND
Vapor Density: ND
Melting Point: ND
Specific Gravity: ND
VOC:
Flash Point: ND
Lower Flammability Limit (LFL): ND
Upper Flammability Limit (UFL): ND
Burning Rate: ND
Auto Ignition: ND

Section 10- Chemical Stability & Reactivity Information

Chemical Stability This is a stable material.
Chemical Stability:
Conditions to Avoid None known.
Incompatibility None known.
Hazardous Decomposition Not determined.
Possibility of Hazardous Reactions Will not occur.



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Section 11 - Toxicological Information

Acute Dose Effects

A: General Product Information	No information available for the product.
B: Component Analysis - LD50/LC50	
Poly(dimethylsiloxane) (63148-62-9)	Oral LD50 Rat: >17 g/kg; Dermal LD50 Rabbit: >2 g/kg
Titanium dioxide (13463-67-7)	Oral LD50 Rat: >10000 mg/kg
Silica, amorphous, fumed, crystal-free (112945-52-5)	Oral LD50 Rat: 3160 mg/kg
Octamethylcyclotetrasiloxane (556-67-2)	Inhalation LC50 Rat: >12.7 mg/kg/4H; Inhalation LC50 Rat: >17.6 mg/U1H; Oral LD50 Rat: 1540 mg/kg; Dermal LD50 Rat: >2400 mg/kg; Dermal LD50 Rabbit: >4640 mg/kg; Dermal LD50 Rabbit: 794 !JUkg
Methyl ethyl ketoxime (96-29-7)	Inhalation LC50 Rat: 20 mg/U4H; Oral LD50 Rat: 930 mg/kg; Dermal LD50 Rabbit: 0.2 mg/kg

Carcinogenicity

A: General Product Information	No information available for the product.
B: Component Carcinogenicity	
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 28 (possibly carcinogenic to humans))
Silica, amorphous, fumed, crystal-free (112945-52-5)	IARC: Monograph 68 [1997] (listed under Amorphous silica) (Group 3 (not classifiable))

Section 12 - Ecological Information

Ecotoxicity

A: General Product Information	No information available for the product.	
B: Component		
Analysis- Ecotoxicity- Aquatic Toxicity	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
Methyl ethyl ketoxime (96-29-7)	Test & Species	Conditions
	96 Hr LC50 Pimephales promelas	843 mg/L [flow through]
	96 Hr LC50 Leuciscus idus	320-1000 mg/L
	96 Hr LC50 Poecilia reticulata	760 mg/L [static]
	72 Hr EC50 Scenedesmus subspicatus	83 mg/L
	5 min EC50 Photobacterium phosphoreum	950 mg/L
	17 Hr EC50 Pseudomonas putida	281 mg/L
	48 Hr EC50 Daphnia magna	750 mg/L

Section 13 - Disposal Considerations

US EPA Waste Number & Descriptions

Component Waste Numbers	No EPA Waste Numbers are applicable for this product's components.
Disposal Instructions	All wastes must be handled in accordance with local, state and federal regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Section 14- Transportation Information

US DOT Information

Shipping Name:	Not Regulated.
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Section 15 - Regulatory Information

US Federal Regulations

TSCA status:

All components of this product are either listed on the TSCA Inventory; or, are not subject to the inventory notification requirements.

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Titanium dioxide	1 3463-67-7	No	Yes	Yes	Yes	Yes	Yes
Methyl ethyl ketoxime	96-29-7	No	No	Yes	No	No	No

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS#	CAN	EEC
Poly(dimethylsiloxane)	63148-62-9	DSL	No
Nepheline syenite	37244-96-5	DSL	No
2-Butanone O, O', O",,- (methylsilyldyne)trioxime	22984-54-9	DSL	EINECS
Titanium dioxide	13463-67-7	DSL	EINECS
Silica amorphous fumed crystal-free	112945-52-5	DSL	No
Octamethylcyclotetrasiloxane	556-67-2	DSL	EINECS
Methyl ethyl ketoxime	96-29-7	DSL	EINECS
2-Butanone O, O', O",, O''',,- silanetetrayltetraoxime	34206-40-1	DSL	EINECS
Cyclotrisiloxane, hexamethyl-	541-05-9	DSL	EINECS

Section 16 - Other Information

Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend

- EPA** = Environmental Protection Agency;
- TSCA** = Toxic Substance Control Act
- ACGIH** = American Conference of Governmental Industrial Hygienists
- IARC** = International Agency for Research on Cancer
- NIOSH** = National Institute for Occupational Safety and Health
- NTP** = National Toxicology Program
- OSHA** = Occupational Safety and Health Administration
- NJTSR** = New Jersey Trade Secret Registry