



Material Name:  
**SmartRoof™ Silicone Seam & Repair Roof Sealant**

### 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
22984-54-9	2-Butanone, O,O',O''-(methylsilyldiyl)trioxime
78-10-4	Ethyl silicate
1760-24-3	N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine
37244-96-5	Nepheline syenite
63148-62-9	Poly(dimethylsiloxane)
1333-86-4	Carbon black
112945-52-5	Silica, amorphous, fumed, crystal-free
Proprietary	Trade Secret 1
96-29-7	Methyl ethyl ketoxime
34206-40-1	2-Butanone, O,O',O'',O'''-silanetetrayltetraoxime
Proprietary	Trade Secret 2

### 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**

**Carbon black (1333-86-4)** ACGIH: 3.5 mg/m3 TWA  
 OSHA: 3.5 mg/m3 TWA  
 NIOSH: 3.5 mg/m3 TWA; 0.1 mg/m3 TWA (as PAH, carbon black in presence of polycyclic aromatic hydrocarbons)

**Ethyl silicate (78-10-4)** ACGIH: 10 ppm TWA  
 OSHA: 10 ppm TWA; 85 mg/m3 TWA  
 NIOSH: 10 ppm TWA; 85 mg/m3 TWA

**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

<b>A: General Product Information</b>	No information available for the product.
<b>B: Component Analysis - LD50/LC50</b>	
Carbon black (1333-86-4)	Oral LD50 Rat: >15400 mg/kg; Dermal LD50 Rabbit: >3 g/kg
N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine (1760-24-3)	Oral LD50 Rat: 7460 µL/kg
Silica, amorphous, fumed, crystal-free (112945-52-5)	Oral LD50 Rat: 3160 mg/kg
Poly(dimethylsiloxane) (63148-62-9)	Oral LD50 Rat: >17 g/kg; Dermal LD50 Rabbit: >2 g/kg
Ethyl silicate (78-10-4)	Oral LD50 Rat: 6270 mg/kg; Dermal LD50 Rabbit: 6300 µL/kg
Trade Secret 1	Inhalation LC50 Rat: >12.7 mg/kg/4H; Inhalation LC50 Rat: >17.6 mg/L/1H; Oral LD50 Rat: 1540 mg/kg; Dermal LD50 Rat: >2400 mg/kg; Dermal LD50 Rabbit: >4640 mg/kg; Dermal LD50 Rabbit: 794 µL/kg
Methyl ethyl ketoxime (96-29-7)	Inhalation LC50 Rat: 20 mg/L/4H; Oral LD50 Rat: 930 mg/kg; Dermal LD50 Rabbit: 0.2 mg/kg

### Carcinogenicity

<b>A: General Product Information</b>	No information available for the product.
<b>B: Component Carcinogenicity</b>	
Carbon black (1333-86-4)	ACGIH: A4 - Not Classifiable as a Human Carcinogen NIOSH: potential occupational carcinogen IARC: Monograph 93 [in preparation], Monograph 65 [1996] (Group 2B (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

<b>A: General Product Information</b>	No information available for the product.	
<b>B: Component Analysis - Ecotoxicity</b>		
- Aquatic Toxicity		
Carbon black (1333-86-4)	<b>Test &amp; Species</b>	<b>Conditions</b>
	24 Hr EC50 Daphnia magna	>5600 mg/L
Trade Secret 1	<b>Test &amp; Species</b>	<b>Conditions</b>
	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)	<b>Test &amp; Species</b>	<b>Conditions</b>
	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
	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

#### Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 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
Carbon black	1333-86-4	Yes	Yes	Yes	Yes	Yes	Yes
Ethyl silicate	78-10-4	Yes	Yes	Yes	Yes	Yes	Yes
Methylethyl ketoxime	96-29-7	No	No	Yes	No	No	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

#### Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS#	Minimum Concentration
Carbon black	1333-86-4	1 %
Ethyl silicate	78-10-4	1 %

### Additional Regulatory Information

#### Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
2-Butanone, O,O',O"- (methylsilylidyne)trioxime	22984-54-9	Yes	DSL	EINECS
Carbon black	1333-86-4	Yes	DSL	EINECS
N-[3-(Trimethoxysilyl)propyl]-1, 2- ethanediamine	1760-24-3	Yes	DSL	EINECS
Silica, amorphous, fumed, crystal-free	112945-52-5	No	DSL	No
Nepheline syenite	37244-96-5	No	DSL	No
Poly(dimethylsiloxane)	63148-62-9	Yes	DSL	No
Ethyl silicate	78-10-4	Yes	DSL	EINECS
Trade Secret 1	Proprietary	Yes	DSL	EINECS
Methyl ethyl ketoxime	96-29-7	Yes	DSL	EINECS
2-Butanone, O,O',O",O"- silanetetrayltetraoxime	34206-40-1	Yes	DSL	EINECS
Trade Secret 2	Proprietary	Yes	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