

# Material Safety Data Sheet

# CertainTeed

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

MSDS Number: CT 10091-1  
DATE PREPARED: May 2, 2007

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product/Trade Name:**

CoolStar™ Membrane Coating  
CoolStar™ Touch Up Coating

**Chemical Name:** Not Applicable

**CAS #:** Not Applicable

**Common Name:** Elastomeric Reflective Roof Coating

**Product Use:** Acrylic-based reflective coating intended for use on commercial roofing systems.

**MANUFACTURER INFORMATION:**

CertainTeed Corporation  
P.O. Box 860  
Valley Forge, PA 19482-0101

**TELEPHONE AND E-MAIL:**

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(Eastern Time – USA)  
CertainTeed-EHS@saint-gobain.com

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	Component	Percent
Not Available	Acrylic Polymers	25 - 35
7732-18-5	Water	18 - 22
13463-67-7	Titanium Dioxide	15 - 25
21645-51-2	Aluminum Hydroxide	7 - 13
7631-86-9	Silica, Amorphous	1 - 5
1336-21-6	Ammonium Hydroxide	0.1 – 0.3

### Component Information/Information on Non-Hazardous Components

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This product is a controlled product under Canadian WHMIS regulations.

### 3. HAZARD IDENTIFICATION

#### Emergency Overview

May cause irritation to the respiratory system, skin and eyes; may cause gastrointestinal irritation if ingested; may cause mild to severe pulmonary injury if inhaled; may cause moderate irritation, defatting and dermatitis on skin contact.

#### Summary

May cause irritation to the respiratory system, skin and eyes. If ingested, may cause gastrointestinal irritation. If product is aspirated into the lungs, may cause mild to severe pulmonary injury. This product may cause moderate irritation, defatting and dermatitis to the skin.

**Routes of Exposure:** Inhalation, skin, and eye contact.

#### Potential Health Effects: Eyes

Contact with the eye may result in irritation. Symptoms may include tearing and redness.

#### Potential Health Effects: Skin

Contact with the skin may be irritating. Prolonged and/or repeated skin contact may cause irritation/dermatitis (reddening, drying and/or cracking).

#### Potential Health Effects: Ingestion

Ingestion of this product may cause nausea, vomiting, fever and diarrhea. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury [pneumonitis (lung inflammation) and/or pulmonary edema (fluid in lung tissue and air spaces)].

#### Potential Health Effects: Inhalation

Inhalation of this product may cause irritation of the respiratory tract. Excessive inhalation of this material may cause headache, dizziness, difficulty breathing and nausea. Repeated or prolonged overexposure to vapor or mist can cause emphysema and/or pulmonary fibrosis.

**Medical Conditions Aggravated by Exposure:** None.

**HMIS Ratings: Health: 1 Fire: 0 Physical Hazard: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

### 4. FIRST AID MEASURES

#### First Aid: Eyes

Immediately flush eyes with large amounts of water for at least 15 minutes. If irritation persists, seek medical attention.

#### First Aid: Skin

Remove contaminated clothing. Wash exposed areas with soap and water for at least 15 minutes. Remove contaminated clothing. If irritation develops or persists, seek medical attention. Launder contaminated clothing before reuse. Do not take clothing home to be laundered.

#### First Aid: Ingestion

If the product is ingested, seek immediate medical attention or advice. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

**First Aid: Inhalation**

If the product is inhaled, remove the affected person to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, seek medical attention.

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**5. FIRE FIGHTING MEASURES****General Fire Hazards**

See Section 9 for Flammability Properties. Material may splatter if heated above 212°F (100°C). This product will not burn. If evaporated to dryness, the solid residue will support combustion and may pose a slight fire hazard.

**Hazardous Combustion Products:** None identified.

**Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>), foam or water spray (fog).

**Fire Fighting Equipment/Instructions**

Standard fire fighting protective equipment is recommended, including full-face, self-contained breathing apparatus and impervious protective clothing.

**NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0**

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

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**6. ACCIDENTAL RELEASE MEASURES****Containment Procedures**

Wear appropriate personal protective equipment. Stop the flow of material, if this can be done without risk.

**Clean-Up Procedures**

Ventilate the contaminated area. Absorb spilled material with inert absorbent (sand, earth). Shovel material into an appropriate container for disposal or recovery. Dispose of in accordance with Federal, State and local regulations in a permitted waste management facility.

**Evacuation Procedures**

Isolate spill area. Keep unnecessary personnel away from area.

**Special Procedures**

Avoid inhalation of vapors, fumes, dusts and/or mists from the spilled material. Surfaces may become slippery after spillage.

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**7. HANDLING AND STORAGE****Handling Procedures**

Do not inhale vapors. Avoid skin and eye contact. Use only with adequate ventilation. Wear impervious clothing, gloves and chemical goggles when handling. Use customary personal hygiene measures, such as washing hands, after working with this product.

**Storage Procedures**

Store in a cool, dry, well-ventilated area. Keep from freezing, as material may coagulate. Do not store material near food, feed or drinking water.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**A: Component Exposure Limits**

**Titanium Dioxide (13463-67-7)**  
 ACGIH: 10 mg/m<sup>3</sup> TWA  
 OSHA: 15 mg/m<sup>3</sup> TWA (total dust)

**Silica, Amorphous (7631-86-9)**  
 OSHA: 80 mg/m<sup>3</sup> / % SiO<sub>2</sub> TWA  
 NIOSH: 6 mg/m<sup>3</sup> TWA

**Engineering Controls**

Provide adequate local exhaust ventilation to maintain worker exposures below exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT**

**Personal Protective Equipment: General**

Use appropriate personal protective equipment when handling this product. Eye wash fountain and emergency showers are recommended in areas where this product may be handled.

**Personal Protective Equipment: Eyes/Face**

Safety glasses with side shields or chemical goggles are recommended to prevent splashing of material in eyes.

**Personal Protective Equipment: Skin**

Wear impervious gloves (neoprene). Work clothing sufficient to prevent all skin contact should be worn.

**Personal Protective Equipment: Respiratory**

If ventilation is not sufficient to effectively prevent build-up of vapors, appropriate NIOSH-approved (or equivalent) respiratory protection must be provided with NIOSH-approved (or equivalent) cartridges for protection against organic vapors.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b> White liquid	<b>Odor:</b> Mild Ammonia
<b>Physical State:</b> Liquid	<b>pH:</b> Not Available
<b>Vapor Pressure:</b> 17 mm Hg @ 68° F/20°C	<b>Vapor Density:</b> > 1.0
<b>Boiling Point:</b> Approx. 212°F/100°C	<b>Freezing Point:</b> 32°F/0°C
<b>Solubility (H<sub>2</sub>O):</b> Soluble	<b>Specific Gravity:</b> 1.4
<b>Flash Point:</b> Not Applicable	<b>Flash Point Method:</b> Not Applicable
<b>LFL:</b> Not Applicable	<b>UFL:</b> Not Applicable
<b>Auto Ignition Temp.:</b> Not Available	<b>Burning Rate:</b> Not Available

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## 10. CHEMICAL STABILITY AND REACTIVITY INFORMATION

### Chemical Stability

Stable under normal conditions.

### Chemical Stability: Conditions to Avoid

Keep away from incompatible materials.

### Incompatibility

Strong oxidizers and acids. Avoid temperatures above 350°F/177°C.

### Hazardous Decomposition

Acrylic monomers by thermal decomposition.

### Possibility of Hazardous Reactions

Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

### Acute Dose Effects

#### A: General Product Information

May cause irritation to the respiratory system, skin and eyes. Contact with the eyes may cause irritation, redness, tearing and blurred vision. Ingestion of this product may cause gastrointestinal irritation, headache, vomiting, diarrhea and drowsiness. Ingestion of this product may cause product to be aspirated into the lungs.

**Repeated Dose Effects:** No information available for the product.

### Carcinogenicity

**A: General Product Information:** No information available for the product.

#### B: Component Carcinogenicity

According to IARC, several rat inhalation and intratracheal installation studies using titanium dioxide have shown increases in benign and malignant lung tumors. Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and risk of 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 paints".

#### Titanium Dioxide (13463-67-7)

ACGIH: A4 – Not Classifiable as a Human Carcinogen

NIOSH: Potential Occupational Carcinogen

IARC: Group 3 (Not classifiable as to carcinogenicity to humans) (Monograph 47, 1989)

#### Silica, Amorphous (7631-86-9)

IARC: Group 3 (Not classifiable as to carcinogenicity to humans) (Monograph 68, 1997; Sup 7, 1987)

**Mutagenicity:** No information available for the product.

**Teratogenicity:** No information available for the product.

**Developmental Effects:** No information available for the product.

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

This product has not been tested.

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## 13. WASTE DISPOSAL CONSIDERATIONS

### US EPA Waste Number & Descriptions

#### A: General Product Information

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

#### B: Component Waste Numbers

No EPA-listed Waste Numbers are being shown for this product's components.

### Disposal Instructions

Dispose of waste material according to Federal, State, local and Provincial environmental regulations. See Section 7 for Handling Procedures; see Section 8 for Personal Protective Equipment recommendations.

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## 14. TRANSPORTATION INFORMATION

### International Transportation Regulations

This product is not regulated as a hazardous material by the United States (DOT) or Canadian (TDG) transportation regulations.

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## 15. US FEDERAL REGULATIONS

### A: General Product Information

Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are either exempt from listing (i.e. polymers, hydrates) or are listed on the confidential inventory as declared by the supplier.

### B: CERCLA

None of the components of this product are present at an amount reportable to the National Response Center under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA: 40 CFR 302.4) or to State and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA), Title III, Section 304.

**Acute Health:** Yes **Chronic Health:** No **Fire:** No **Pressure:** No **Reactive:** No

### State Regulations

#### A: General Product Information

Other state regulations may apply. Check individual state requirements.

**B: 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
Aluminum Hydroxide	21645-51-2	No	No	No	No	No	No
Titanium Dioxide	13463-67-7	No	Yes	Yes	Yes	Yes	Yes
Silica, Amorphous	7631-86-9	Yes	Yes	Yes	Yes	Yes	Yes
Ammonium Hydroxide	1336-21-6	Yes	Yes	No	Yes	Yes	No

**C: California Safe Drinking Water and Toxics Enforcement Act (Proposition 65)**

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.

**Canadian WHMIS Information**

**A: General Product Information**

WHMIS Class D2B – Irritating to eyes and skin.

**B: Component Analysis - WHMIS IDL**

No components are listed in the WHMIS IDL.

**WHMIS Classification:**

WHMIS Class D2B – Irritating to eyes and skin.

**Additional Regulatory Information**

**A: General Product Information**

No additional information available.

**B: Component Analysis - Inventory**

Component	CAS #	TSCA	DSL	EINECS
Aluminum Hydroxide	21645-51-2	Yes	Yes	Yes
Titanium Dioxide	13463-67-7	Yes	Yes	Yes
Silica, Amorphous	7631-86-9	Yes	Yes	Yes
Water	7732-18-5	Yes	Yes	Yes
Ammonium Hydroxide	1336-21-6	Yes	Yes	Yes

**16. ADDITIONAL COMMENTS**

**Other Information**

Disclaimer: Supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product.

**Acronyms/definitions used in this MSDS:**

- ACGIH American Conference of Governmental Industrial Hygienists;
- CAS # Chemical Abstracts Services Number;
- CERCLA Comprehensive Environmental Response, Compensation and Liability Act;
- CFR Code of Federal Regulations;
- EPA Environmental Protection Agency;
- HMSIS Hazardous Material Identification System;
- IARC International Agency for Research on Cancer;
- LFL Lower Flammable Limit;
- mg/m<sup>3</sup> Milligrams per cubic meter;
- NFPA National Fire Protection Association;
- NIOSH National Institute for Occupational Safety and Health;
- NTP National Toxicology Program;
- OSHA Occupational Safety and Health Administration;
- ppm Parts per million;
- PEL Permissible Exposure Limit;
- REL Recommended Exposure Limit;
- SARA Superfund Amendments and Reauthorization Act;
- RCRA Resource Conservation and Recovery Act;
- Title III Emergency Planning and Community Right to Know Act;  
Section 302- Extremely Hazardous Substances;  
Section 313- Toxic Chemicals;
- TLV Threshold Limit Value;
- TWA Time Weighted Average;
- UFL Upper Flammable Limit.

**MSDS History**

MSDS Revision Summary:

<u>Date</u>	<u>MSDS No.</u>	<u>Comments</u>
04/14/2006	CT 10091-1	New MSDS
05/02/2007	CT 10091-1	Touch Up coating product listed

This is the end of MSDS # CT 10091-1