Material Safety Data Sheet

CertainTeed

MSDS Number: CT 10107-1
DATE PREPARED: May 02, 2008

1. *CHEMICAL PRODUCT AND COMPANY IDENTIFICATION*

Product/Trade Name:
Color Max™ Prefinished Fibercement Coating
ColorMax™ Touch Up Kit

Chemical Name: Mixture
CAS #: Not Applicable
Common Name: None
Product Use: Liquid prefinish coating applied to fibercement products and fibercement siding paint touch-up kit. Touch-up kit distributed in 1-quart containers.

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

TELEPHONE AND E-MAIL:
(610) 341-7000 9 AM – 5 PM
(Eastern Time – USA)
CertainTeed-EHS@saint-gobain.com

EMERGENCY TELEPHONE: CHEMTREC (800) 424-9300
OUTSIDE OF THE U.S. CHEMTREC (703) 527-3887

2. *HAZARD IDENTIFICATION*

Emergency Overview

May cause slight irritation to the respiratory system, eyes, and skin. This product may be harmful if it is swallowed. Contains a material which may cause damage to the longs. Possible cancer hazard based on animal data.

Summary:
Do not ingest. Wash thoroughly after handling. Risk of cancer depends on duration and level of exposure.

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

Potential Health Effects: Eyes:
This product may cause slight irritation to the eyes. Symptoms may include redness.

Potential Health Effects: Skin:
This product may cause slight irritation to the skin. Symptoms may include defatting of skin tissue.

Potential Health Effects: Ingestion: This product may be harmful if it is swallowed.

Potential Health Effects: Inhalation

This product may cause slight irritation to the respiratory system. Symptoms may include cough, impaired lung function and shortness of breath.

Medical Conditions Aggravated by Exposure:

Pulmonary conditions, eye disorders and respiratory conditions.

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

3. *COMPOSITION / INFORMATION ON INGREDIENTS*

CAS #	Component	Percent*
13463-67-7	Titanium dioxide	1 - 25
7631-86-9	Silica, amorphous	0.1 - 5
100-41-4	Ethyl benzene	0.1 - 1
1897-45-6	Chlorothalonil	0.1 -1
1333-86-4	Carbon black	0.1 - 1

Component Information/Information on Non-Hazardous Components

This product may be regulated, have exposure limits or other information identified as the following: Titanium compounds.

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

This material is a controlled product under Canadian WHMIS regulations

*Concentration ranges do not fall under the prescribed WHMIS ranges. Stated concentrations represent maximum variation of each batch of product.

4. *FIRST AID MEASURES*

First Aid: Eyes

Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention if irritation persists.

First Aid: Skin

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.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

First Aid: Inhalation

If inhaled, remove the affected person to fresh air. If symptoms persist, get medical attention.

5. *FIRE FIGHTING MEASURES*

General Fire Hazards:

See Section 9 for Flammability Properties.
This product is combustible at high temperatures.

Hazardous Combustion Products:

Combustion products may include: carbon oxides, sulfur oxides, halogenated compounds and some metallic oxides.

Extinguishing Media:

Dry chemical, carbon dioxide (CO2), water spray, fog or foam. Do not use water jet.

Fire Fighting Equipment/Instructions

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing.

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

6. ACCIDENTAL RELEASE MEASURES

Containment Procedures:

Wear appropriate personal protective equipment. Stop the flow of material, if this is without risk. Do not allow product to enter sewer or waterways.

Clean-Up Procedures:

Absorb spill with inert material. Shovel material into a sealable, liquid-proof container for disposal. Wear appropriate protective equipment and clothing during clean-up as described in Section 8.

Evacuation Procedures:

Isolate area. Keep unnecessary personnel away.

Special Procedures: No additional information available.

7. HANDLING AND STORAGE

Handling Procedures:

Use this product with adequate ventilation. Avoid contact with skin and eyes. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material.

Storage Procedures:

Store in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

A: Component Exposure Limits

Titanium dioxide (13463-67-7)
ACGIH: 10 mg/m3 TWA
OSHA: 15 mg/m3 TWA (total dust)

Silica, amorphous (7631-86-9)
OSHA: 20 mppcf TWA; ((80)/(% SiO2) mg/m3 TWA)
NIOSH: 6 mg/m3 TWA

Ethyl benzene (100-41-4)
ACGIH: 125 ppm STEL
100 ppm TWA
OSHA: 100 ppm TWA; 435 mg/m3 TWA
NIOSH: 125 ppm STEL; 545 mg/m3 STEL
100 ppm TWA; 435 mg/m3 TWA

Carbon Black (1333-86-4)
ACGIH: 10 mg/m3 TWA
OSHA: 15 mg/m3 TWA (total dust)
NIOSH: 3.5 mg/m3 TWA 10-hour

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 such as Viton®. 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 and a P100 HEPA filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid (Various colors)	**Odor:**	Not available
Physical State:	Liquid	**pH:**	8.5 to 9
Vapor Pressure:	Highest known value is 2.3 pKa (17.5 mm Hg)(20C) (water)	**Vapor Density:**	Lighter than air
Boiling Point:	100 to 260 C (212 to 500F)	**Melting Point:**	Not Applicable
Solubility (H2O):	Not available	**Specific Gravity:**	1.287
Evaporation Rate:	Highest known value is <1 (water) compared to butyl acetate	**Percent Volatile:**	47.48% (w/w)
Flash Point:	>93.3 ^{o}C (>199.9 ^{o}F)	**Flash Point Method:**	Closed Cup
Lower Flammability Limit:	Not Available	**Upper Flammability Limit:**	Not Available
Auto Ignition Temp.:	Not Available	**Burning Rate:**	Not Available

10. CHEMICAL STABILITY AND REACTIVITY INFORMATION

Chemical Stability: Stable under normal conditions.

Conditions to Avoid:

Keep away from heat, ignition sources and incompatible materials. Avoid dusty conditions.

Incompatibility: Strong oxidizers and acids.

Hazardous Decomposition: None identified.

Possibility of Hazardous Reactions: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Dose Effects

A: General Product Information:

May cause slight irritation to the respiratory system, skin and eyes. This product may be harmful if swallowed.

B: Component Analysis - LD50/LC50

Titanium dioxide (13463-67-7)
Oral LD50 Rat: >10000 mg/kg

Silica, amorphous (7631-86-9)
Oral LD50 Rat: >5000 mg/kg; Dermal LD50 Rabbit: >2000 mg/kg

Ethyl benzene (100-41-4)
Inhalation LC50 Rat: 17.2 mg/L/4H; Oral LD50 Rat: 3500 mg/kg; Dermal LD50 Rabbit: 15354 mg/kg

Chlorothalonil (1897-45-6)
Inhalation LC50 Rat: 0.217 mg/L/4H; Inhalation LC50 Rat: 0.310 mg/L/1H; Oral LD50 Rat: 10 g/kg; Dermal LD50 Rabbit: >2000 mg/kg

Carbon Black (**1333-86-4)**
Oral LD50 Rat: >8000 mg/kg

Repeated Dose Effects:
Reports show repeated and prolonged overexposure to solvents has been associated with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents of this package may be harmful or fatal.

Carcinogenicity

A: General Product Information:
This product contains chlorothanonil which is classified as IARC 2B possibly carcinogenic to humans by inhalation based on animal studies. This product also contains titanium dioxide which human epidemiology studies do not suggest an increased risk of cancer in humans for occupational exposure. According to the IARC summary on titanium dioxide, "No significant exposure to titanium dioxide is thought to occur during use of products in which titanium dioxide is bound to other materials, such as paint."

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 2B (possibly carcinogenic to humans))

Silica, amorphous (7631-86-9)
IARC: Monograph 68 [1997], Supplement 7 [1987] (Group 3 (not classifiable))

Ethyl benzene (100-41-4)
ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans
IARC: Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))

Chlorothalonil (1897-45-6)
IARC: Monograph 73 [1999], Supplement 7 [1987] (Group 2B (possibly carcinogenic to humans))

Carbon Black (1333-86-4)
ACGIH: A4 – Not Classifiable as a Human Carcinogen
NIOSH: Potential occupational carcinogen
IARC: Monograph 73 [1999], Supplement 7 [1987] (Group 2B (possibly carcinogenic to humans))

Mutagenicity: None by OSHA standard.

Teratogenicity: None by OSHA standard.

Developmental Effects: No information available for the product.

12. ECOLOGICAL INFORMATION

Ecotoxicity

A: General Product Information: This product has not been tested.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity:

Silica, amorphous (7631-86-9)

Test & Species		Conditions
96 Hr LC50 Brachydanio rerio	5000 mg/L	Static
72 Hr EC50 Selenastrum capricornutum	440 mg/L	
48 Hr EC50 Ceriodaphnia dubia	7600 mg/L	

Ethyl benzene (100-41-4)

Test & Species		Conditions
96 Hr LC50 Oncorhynchus mykiss	14.0 mg/L	Static
96 Hr LC50 Pimephales promelas	9.09 mg/L	Flow-through
96 Hr LC50 Lepomis macrochirus	150.0 mg/L	Static
96 Hr LC50 Oncorhynchus mykiss	4.2 mg/L	Static
96 Hr LC50 Lepomis macrochirus	32 mg/L	Static
96 Hr LC50 Pimephales promelas	48.5 mg/L	Static
96 Hr LC50 Poecilia reticulata	9.6 mg/L	Static
72 Hr EC50 Selenastrum capricornutum	4.6 mg/L	
96 Hr EC50 Selenastrum capricornutum	>438 mg/L	
30 min EC50 Photobacterium phosphoreum	9.68 mg/L	
24 Hr EC50 Nitrosomonas	96 mg/L	
48 Hr EC50 Daphnia magna	1.8-2.4 mg/L	

Chlorothalonil (1897-45-6)

Test & Species		Conditions
96 Hr LC50 Oncorhynchus mykiss	0.012 mg/L	Semi-static
72 Hr EC50 Scenedesmus subspicatus	0.57 mg/L	
48 Hr EC50 Daphnia magna	0.059 mg/L	

Carbon Black (1333-86-4)

Test & Species		Conditions
96 Hr LC50 Brachydanio rerio	>1000 mg/L	Static
72 Hr EC50 Scenedesmus subspicatus	>10000 mg/L	
24 Hr EC50 Daphnia magna	>5600 mg/L	

Environmental Fate: No information available for the product.

13. WASTE DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions

A: General Product Information:

Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. 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:

Waste must be handled in accordance with all federal, state, provincial, and local regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

14. TRANSPORTATION INFORMATION

US DOT Information:

Shipping Name: This product is not classified as a hazardous material for transport.

TDG Information

Shipping Name: This material is not classified as a dangerous good for transportation.

15. REGULATORY INFORMATION

US Federal

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 :

This material contains one or more of the following chemicals required to be identified under CERCLA (40 CFR 302.4).

Ethyl benzene (100-41-4)

CERCLA: 1000 lb final RQ; 454 kg final RQ

Acute Health: Yes **Chronic Health:** Yes **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
Titanium dioxide	13463-67-7	No	Yes	Yes	Yes	Yes	Yes
Silica, amorphous	7631-86-9	Yes	Yes	Yes	Yes	Yes	No
Ethyl benzene	100-41-4	Yes	Yes	Yes	Yes	Yes	Yes
Chlorothalonil	1897-45-6	Yes	Yes	No	Yes	Yes	No
Carbon Black	1333-86-4	Yes	Yes	Yes	Yes	Yes	Yes

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 Classification:

WHMIS Class D2A - Carcinogenicity
D2B – Irritation to eyes/skin/inhalation; harmful by ingestion

B: Component Analysis – WHMIS IDL:

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

Component	CAS #	Minimum Concentration
Silica, amorphous	7631-86-9	1 %
Ethyl benzene	100-41-4	0.1 %
Carbon black	1333-86-4	1 %

WHMIS Classification:

WHMIS Class D2A - Carcinogenicity
D2B – Irritation to eyes/skin/inhalation; harmful by ingestion

Additional Regulatory Information

A: General Product Information: No additional information available.

B: Component Analysis – Inventory:

Component	CAS #	TSCA	DSL	EINECS
Titanium dioxide	13463-67-7	Yes	Yes	Yes
Silica, amorphous	7631-86-9	Yes	Yes	Yes
Ethyl benzene	100-41-4	Yes	Yes	Yes
Chlorothalonil	1897-45-6	Yes	Yes	Yes
Carbon Black	1333-86-4	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;
HMIS	Hazardous Material Identification System;
IARC	International Agency for Research on Cancer;
LFL	Lower Flammable Limit;
mg/m^3	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:

Date	**MSDS No.**	**Comments**
07/27/2007	CT 10107-1	New MSDS
01/28/2008	CT 10107-1	Document review
03/04/2008	CT 10107-1	Addition of component Document review
05/02/2008	CT 10107-1	Inclusion of coating used for prefinished fibercement

This is the end of MSDS # CT 10107-1