

CertainTeed

# PANORAMA™

Composite Railing System

## Material Safety Data Sheet

DATE PREPARED: September 27, 2005

MSDS Number: CT 10089-1

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product/Trade Name:** Panorama Composite Railing

**Chemical Name:** Not Applicable

**CAS No:** Not Applicable

**Common Name:** Composite Railing

**Product Use:** Construction Material All types and grades of extruded PVC composite lumber; decking and railing accessories

#### MANUFACTURER INFORMATION

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

Main Telephone: (800)274-8530  
Health, Safety & Environmental Affairs  
(610) 341-7000 (9 AM – 5 PM Eastern)

**EMERGENCY TELEPHONE: CHEMTREC (800) 424-9300**

### 2. COMPOSITION/INFORMATION ON INGREDIENT

CAS #	Component	Percent
9002-86-2	PVC (Chloroethylene, polymer)	30-50
9004-34-6	Cellulose	30-50
Mixture	Additives/Binders	Balance

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

The products listed above are articles as so defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Their end uses are dependant upon their manufactured shape and design, and they will not release, or otherwise result in exposure to a hazardous chemical under normal conditions of use. Exposure limits are given for reference only.

This material is not a controlled product under Canadian WHMIS regulations.

The actual weight percentage ranges for chemical components were used, rather than using the WHMIS-mandated ranges.

### 3. HAZARD IDENTIFICATION

#### EMERGENCY OVERVIEW

Under normal conditions of use, this product is not expected to create any unusual emergency hazards. This is a PVC/wood composite article. Sawing, drilling, or nailing this material may produce nuisance dust. Exposure to nuisance dust may result in mechanical irritation characterized by itching or redness. Use methods suitable to fight surrounding fire.

Due to product form, exposures to dusts and fumes are not expected to occur. If this product is cut with power cutting equipment (such as saws), dust generated may cause respiratory irritation, and congestion in extreme cases. Prolonged and excessive skin contact may result in slight irritation.

	<u>Health</u>	<u>Fire</u>	<u>Physical Hazard</u>	<b>Degree of Hazard</b>
<b>HMIS Rating:</b>	0	1	0	0 – Minimal (Insignificant) 2 – Moderate 3 – Serious (High) 4 – Severe (Extreme)

(see section 16 for acronyms) \* – Chronic Hazard

#### POTENTIAL HEALTH EFFECTS

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

**Eyes:** Particulates from cutting, grinding or drilling of this product may cause mechanical irritation of the eye. Continued mechanical irritation of the eye could result in permanent corneal damage.

**Skin:** This product may produce skin abrasions. Mechanical rubbing may increase skin irritation.

**Ingestion:** Not a likely route of entry.

**Inhalation:** Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.

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

### 4. FIRST AID MEASURES

**Eyes:** Do not rub or scratch your eyes. Dust particles may cause the eye to be scratched. Flush eyes with large amounts of water for 5-15 minutes. If irritation persists, contact a physician.

**Skin:** Wash exposed skin with soap and water. If irritation develops or persists, seek medical attention.

**Ingestion:** Product is not intended to be ingested or eaten. If the product is ingested, do not induce vomiting. Seek medical attention.

**Inhalation:** Move person to non-contaminated air. Call a physician if symptoms develop or persist.

## 5. FIRE FIGHTING MEASURES

**General Fire Hazards:** See Section 9 for Flammability Properties None expected.

**Hazardous Combustion Products:** The decomposition products from this material are those that would be expected from any organic (carbon-containing) material, and are mainly derived from pyrolysis, or burning, of the polymer. These decomposition products may include carbon dioxide, carbon monoxide, carbon particles, hydrocarbons, chlorine, hydrogen, chloride, phosgene, and formaldehyde. This product should not be burned as construction waste.

**Extinguishing Media:** Use any media suitable for the surrounding fires: water, spray, fog, carbon dioxide (CO<sub>2</sub>), dry chemical, foam.

**Fire Fighting Equipment/Instructions:** Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products. Do not release chemically contaminated water into drains, soil or surface water.

	<b>Health</b>	<b>Fire</b>	<b>Physical Hazard</b>	<b>Degree of Hazard</b>
<b>NFPA Rating:</b>	0	1	0	0 – Minimal (Insignificant) 1 – Slight 2 – Moderate 3 – Serious (High) 4 – Severe (Extreme)
	(see section 16 for acronyms)			

## 6. ACCIDENTAL RELEASE MEASURES

**Containment Procedures:** None necessary.

**Clean-Up Procedures:** Sweep up or gather material and place in appropriate container for disposal. This product should not be burned as construction waste.

**Evacuation Procedures:** None necessary.

**Special Procedures:** Wear safety glasses with side shields or safety goggles and gloves.

## 7. HANDLING AND STORAGE

**Handling Procedures:** Customary personal hygiene measures, such as washing hands after working with these products, are recommended.

**Storage Procedures:** Room temperature - normal conditions. Warehouse storage should be in accordance with package directions, if any. Material should be kept dry, and protected from the elements.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### Component Exposure Limits

Cellulose (9004-34-6)

ACGIH. 10 mg/m<sup>3</sup> TWA

OSHA. 15 mg/m<sup>3</sup> TWA (total dust), 5 mg/m<sup>3</sup> TWA (respirable fraction)

NIOSH. 10 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable fraction)

**Engineering Controls:** No special protective measures are necessary for use of this product in that it is an article, and under normal conditions of use is not expected to release, or otherwise result in exposure to a hazardous chemical

### PERSONAL PROTECTIVE EQUIPMENT

**Eyes/Face:** Safety glasses with side shields may be worn to reduce the risk of eye injury as a result of construction activities

**Skin:** Wear leather or other appropriate work gloves, if necessary, for type of operation to prevent skin contact or irritation

**Respiratory:** No special ventilation systems are required under normal conditions of use. However, efficient exhaust should be provided at all operations capable of creating fumes or vapors. Cutting, sawing, machining, heat welding, thermoforming and other operations involving heat sufficient to result in degradation should be examined to ensure adequate ventilation

**General:** No special protective measures are necessary for use of this product in that it is an article, and under normal conditions of use is not expected to release, or otherwise result in, exposure to a hazardous chemical. Use good personal hygiene practices in handling this material.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Railing Product

**Physical State:** Solid

**Vapor Pressure:** Not Applicable

**Boiling Point (°F):** Not Applicable

**Solubility (H<sub>2</sub>O):** Not Applicable

**Flash Point:** Not Available

**Lower Flammability Limit:** Not Available

**Auto Ignition Temp:** Not Available

**Odor:** Negligible

**pH:** Not Applicable

**Vapor Density:** Not Applicable

**Melting Point:** Not Applicable

**Specific Gravity:** Not Applicable

**Flash Point Method:** Not Available

**Upper Flammability Limit:** Not Available

**Burning Rate:** Not Available

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## 10. CHEMICAL STABILITY AND REACTIVITY INFORMATION

**Chemical Stability:** Stable under normal conditions

**Conditions to Avoid:** Keep away from heat, sparks, or open flame.

**Incompatibility:** None identified

**Hazardous Decomposition:** The decomposition products from this material are those that would be expected from any organic (carbon-containing) material, and are mainly derived from pyrolysis, or burning, of the polymer. These decomposition products may include carbon dioxide, carbon monoxide, carbon particles, hydrocarbons, chlorine, hydrogen, chloride, phosgene, and formaldehyde

**Possibility of Hazardous Reactions:** None expected

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## 11. TOXICOLOGICAL INFORMATION

### Acute Dose Effects

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

**Repeated Dose Effects:** No chronic health effects are expected from the normal use of this product

### Carcinogenicity

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

#### Component Carcinogenicity

PVC (Chloroethylene, polymer) (9002-86-2):

IARC: Supplement 7, 1987; Monograph 19, 1979 (Group 3 (not classifiable))

**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

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

**Component Analysis - Ecotoxicity - Aquatic Toxicity:** No ecotoxicity data are available for this product's components.

**Environmental Fate:** No information available for the product.

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## 13. WASTE DISPOSAL CONSIDERATIONS

### US EPA WASTE NUMBER & DESCRIPTIONS

**General Product Information:** This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the EPA.

**Component Waste Numbers:** No EPA Listed Waste Numbers are being shown for this product's components.

**Disposal Instructions:** Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. See Section 7 for Handling Procedures, and Section 8 for Personal Protective Equipment recommendations.

## 14. TRANSPORTATION INFORMATION

### US DOT INFORMATION

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

### TDG INFORMATION

Shipping Name: Not classified as a Dangerous Good for transportation.

## 15. REGULATORY INFORMATION

### US FEDERAL REGULATIONS

**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 exempt from listing (i.e., as polymers) or are listed on the confidential inventory as declared by the supplier.

**CERCLA:** None of the components of this product are listed under CERCLA (40 CFR 302.4) and are present in the material at an amount exceeding the Reportable Quantity (RQ).

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

### STATE REGULATIONS

**General Product Information:** Other state regulations may apply. Check individual state requirements.

#### 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
Cellulose	9004-34-6	No	Yes	Yes	No	Yes	Yes

#### California Safe Drinking Water and Toxics Enforcement Act (Proposition 65)

None of the components in this product are known to the State of California to cause cancer or developmental and reproductive toxicity.

### CANADIAN WHMIS INFORMATION

**General Product Information:** This product is not a controlled product according to the Canadian Hazardous Products Act.

**Component Analysis - WHMIS IDL:** No components are listed in the WHMIS IDL.

**WHMIS Classification:** None.

### ADDITIONAL REGULATORY INFORMATION

**General Product Information:** No additional information available.

#### Component Analysis – Inventory

Component	CAS #	TSCA	DSL	EINECS
PVC (Chloroethylene, polymer)	9002-86-2	Yes	Yes	No
Cellulose	9004-34-6	Yes	Yes	Yes

## 16. ADDITIONAL INFORMATION

### 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 No.	Chemical Abstracts Services Number
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
EPA	Environmental Protection Agency
f/cc	Fibers per cubic centimeter
g/cm <sup>3</sup>	Grams per cubic centimeter
HMIS	Hazardous Material Identification System
IARC	International Agency for Research on Cancer
LC50	Lethal concentration that produces death in 50% of the test population
LD50	Lethal dose required to produce death in 50% of the test population
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
PNOC	Particulates Not Otherwise Classified
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
09/27/2005	CT 10089-1	New MSDS