



(Material) Safety Data Sheet

Section 1 - Product and Company Identification

- Material Name** ▪ CertaCoat-IC
- Product Code** ▪ CT10168
- Product Use** ▪ Intumescent Coating for Polyurethane Spray Foam System.
- Manufacturer** ▪ CertainTeed Corporation
750 E. Swedesford Road
P.O. Box 860 Valley Forge, PA 19482 -0105
United States
www.certainteed.com
CertainTeed - EHS@saint-gobain.com
- Telephone**
- General** ▪ 610-341-7000
- Emergency** ▪ 800-527-3887
- Preparation Date** ▪ 12/7/2010
- Last Revision Date** ▪ 12/7/2010

Key to abbreviations
‡ = HMIS is a registered trademark of the American Coatings Association

Section 2 - Hazards Identification

Emergency Overview

WARNING

May cause respiratory irritation. May cause an allergic skin reaction. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer .

Prevention Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapours and/or spray. Keep container tightly closed. Wash thoroughly after handling. Use personal protective equipment as required. Wear protective gloves, clothing , and eye/face protection. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

Response IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage/Disposal Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.



Physical Form**Flash Point****OSHA****WHMIS**

- Liquid
- > 110 C(> 230 F)
- Irritant, Carcinogen
- Class D - Poisonous and Infectious Materials - Division 2 - Subdivision A, Class D - Poisonous and Infectious Materials - Division 2 - Subdivision B

**EU****GHS**

- None
- Specific Target Organ Toxicity Single Exposure - Category 3, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation - Category 2A, Skin Sensitizer - Category 1, Carcinogenicity - Category 2

Route Of Entry**Target Organs**

- Inhalation, Skin, Eye
- Bladder/Urinary System, Kidney

Potential Health Effects**Inhalation****Acute (Immediate)****Chronic (Delayed)**

- May cause respiratory irritation.
- No data available.

Skin**Acute (Immediate)****Chronic (Delayed)**

- Harmful in contact with skin. May cause irritation. May cause sensitization.
- No data available.

Eye**Acute (Immediate)****Chronic (Delayed)**

- May cause irritation.
- No data available.

Ingestion**Acute (Immediate)****Chronic (Delayed)**

- May be harmful if swallowed.
- No data available.

Carcinogenic Effects

- This product contains components that are possibly carcinogenic to humans.

Carcinogenic Effects			
	CAS	IARC	NTP
Melamine	108-78-1	Group 3-Not Classifiable	Evidence of Carcinogenicity
Titanium oxide	13463-67-7	Group 2B-Possible Carcinogen	Evidence of Carcinogenicity

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

Hazardous Components						
Chemical Name	CAS	%(weight)	UN;EINECS	LD50/LC50	EU Classification & R Phrases	Other
Vinyl-acrylic based polymer	NDA	13% TO 30%	NDA	NDA	NDA	NDA
Dipentaerythritol	126-58-9	7% TO 13%	204-794-1	NDA	NDA	NDA
Melamine	108-78-1	7% TO 13%	203-615-4	Ingestion/Oral-Rat LD50: =3161 mg/kg Inhalation-Rat LC50: =3248 mg/m ³ Skin-Rabbit LD50: >1 g/kg	NDA	NDA
Titanium oxide	13463-67-7	7% TO 13%	236-675-5	NDA	NDA	NDA
Flame retardant	NDA	3% TO 7%	NDA	NDA	NDA	NDA
Non-Hazardous Components						
Chemical Name	CAS	%(weight)	UN;EINECS	LD50/LC50	EU Classification & R Phrases	Other
Ammonium polyphosphate	NDA	13% TO 30%	NDA	NDA	NDA	NDA

Under United States Regulations (29 CFR 1900.1200 - Hazard Communication Standard), this product is considered hazardous. In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS). According to European Directive 1999/45/EC this preparation is considered dangerous. According to the Globally Harmonized Standard for Classification and Labeling (GHS) this product is considered Hazardous.

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

- Inhalation**
- Move victim to fresh air. Keep patient warm and comfortable. Administer oxygen if breathing is difficult. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
- Skin**
- Immediately flush skin with large amounts of water. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.
- Eye**
- Immediately flush eyes for at least 15 minutes. Remove contact lenses if worn. Get medical attention if symptoms occur.
- Ingestion**
- Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

See Section 2 for Potential Health Effects.

Section 5 - Fire Fighting Measures

- Extinguishing Media**
- Use extinguishing media appropriate for surrounding fire.
- Unsuitable Extinguishing Media**
- None known.
- Firefighting Procedures**
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away.
- Unusual Fire and Explosion Hazards**
- In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous Combustion Products**
- Carbon dioxide, carbon monoxide, nitrogen oxides, metal oxide/oxides.
- Protection of Firefighters**
- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Flash Point

- > 110 C(> 230 F) STCC (Seta Test/Seta Flash Closed Cup)

Section 6 - Accidental Release Measures

Personal Precautions

- Do not breathe vapor or mist. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate enclosed areas.

Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep unauthorized personnel away. Stay upwind.

Environmental Precautions

- Prevent entry into waterways, sewers, basements or confined areas.

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
Move containers from spill area. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Contaminated absorbent material may exhibit the same hazard(s) as the spilled product.
Prevent entry into waterways, sewers, basements or confined areas.

Section 7 - Handling and Storage

Handling

- Put on appropriate personal protective equipment. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

- Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials(see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Special Packaging Materials

- No data available.

Incompatible Materials or Ignition Sources

- Oxidizing agents. Reducing materials. Acids .

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment

Pictograms



Respiratory

- Respiratory protection is not normally required. Use a NIOSH approved/certified respiratory when the exposure limits are exceeded. Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Eye/Face

- Wear protective eye/face protection - Safety goggles at a minimum and in situations where splashing may occur a face shield must also be worn.

Hands

- Chemical-resistant, impervious gloves should be worn at all times when handling this product.

Skin/Body

- Wear protective clothing, personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

General Industrial Hygiene Considerations

- Do not get in eyes or on skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Handle in accordance with good industrial hygiene and safety practice.

Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Exposure Limits/Guidelines						
	Result	ACGIH	Canada British Columbia	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories
Titanium oxide (13463-67-7)	TWAs	10 mg/m3 TWA	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction)	10 mg/m3 TWA	10 mg/m3 TWA	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)

Exposure Limits/Guidelines (Con't.)						
	Result	Canada Nova Scotia	Canada Nunavut	Canada Ontario	Canada Quebec	Canada Yukon
Titanium oxide (13463-67-7)	TWAs	10 mg/m3 TWA	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)	10 mg/m3 TWAEV (total dust)	10 mg/m3 TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)	30 mppcf TWA; 10 mg/m3 TWA
	STELs	Not established	Not established	Not established	Not established	20 mg/m3 STEL

Exposure Limits/Guidelines (Con't.)		
	Result	OSHA
Titanium oxide (13463-67-7)	TWAs	15 mg/m3 TWA (total dust)

Exposure Control Notations

Canada British Columbia

▪Titanium oxide (13463-67-7): **Carcinogens:** (IARC Category 2B - Possible Human Carcinogen) | **Designated Substances:** (IARC Category 2B - Possible Human Carcinogen)

Canada Manitoba

▪Titanium oxide (13463-67-7): **Carcinogens:** (A4 Not Classifiable as a Human Carcinogen)

Canada New Brunswick

▪Titanium oxide (13463-67-7): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Canada Nova Scotia

▪Titanium oxide (13463-67-7): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

ACGIH

▪Titanium oxide (13463-67-7): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Exposure Limits Supplemental

ACGIH

▪Titanium oxide (13463-67-7): **TLV Basis - Critical Effects:** (lower respiratory tract irritation)

Key to abbreviations

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

VME = Valeur Moyenne d'Exposition is the maximum permissible concentration for a work day

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures.

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

TWAEV = Time-Weighted Average Exposure Value

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration.

Section 9 - Physical and Chemical Properties

Physical Form

- Liquid

Section 12 - Ecological Information

- Ecological Fate** ▪ No data available.
 - Persistence/Degradability** ▪ No data available.
 - Bioaccumulation Potential** ▪ No data available.
 - Mobility in Soil** ▪ No data available.
- This product has not been tested. No known significant effects or critical hazards.

Section 13 - Disposal Considerations

- Product** ▪ Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Packaging** ▪ Do not reuse product packaging as it may contain product residues.

Section 14 - Transportation Information

DOT - United States - Department of Transportation
Shipping Name: Not Regulated

TDG - Canada - Transport of Dangerous Goods
Shipping Name: Not Regulated

IMO/IMDG -International Maritime Transport
Shipping Name: Not Regulated

IATA - International Air Transport Association
Shipping Name: Not Regulated

Section 15 - Regulatory Information

SARA Hazard Classifications ▪ Acute, Chronic

State Right To Know				
Component	CAS	MA	NJ	PA
Ammonium polyphosphate	NDA	No	No	No
Vinyl-acrylic based polymer	NDA	No	No	No
Dipentaerythritol	126-58-9	No	No	No
Melamine	108-78-1	Yes	No	Yes
Titanium oxide	13463-67-7	Yes	Yes	Yes
Flame retardant	NDA	No	No	No

Inventory				
Component	CAS	Canada DSL	Canada NDSL	TSCA
Ammonium polyphosphate	NDA	No	No	No
Vinyl-acrylic based polymer	NDA	No	No	No
Dipentaerythritol	126-58-9	Yes	No	Yes

Melamine	108-78-1	Yes	No	Yes
Titanium oxide	13463-67-7	Yes	No	Yes
Flame retardant	NDA	No	No	No

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Uncontrolled product according to WHMIS classification criteria
D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Titanium dioxide, mixture containing on Health Canada's WHMIS website.)
- Titanium oxide 13463-67-7 7% TO 13%

Canada - WHMIS - Ingredient Disclosure List

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% 1 %
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

Environment

Canada - CEPA - Priority Substances List

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

Canada British Columbia

Environment

Canada - British Columbia - Ozone Depleting Substances

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

Canada Manitoba

Environment

Canada - Manitoba - Ozone Depleting Substances and Other Halocarbons - Class 1

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

Canada - Manitoba - Ozone Depleting Substances and Other Halocarbons - Class 2

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

Canada Nova Scotia

Environment

Canada - Nova Scotia - Ozone Layer Protection Regulations

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

Canada Ontario

Environment

Canada - Ontario - Airborne Contaminant Reporting - Table 2A

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

Canada - Ontario - Airborne Contaminant Reporting - Table 2B

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

Canada Yukon

Environment

Canada - Yukon - Ozone Depleting Substances and Other Halocarbons

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

Mexico

Other

Mexico - Hazard Classifications

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

Mexico - Regulated Substances

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed

- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

U.S. - CWA (Clean Water Act) - Hazardous Substances

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

U.S. - CWA (Clean Water Act) - Priority Pollutants

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13%
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Not Listed

United States - Rhode Island

Labor

U.S. - Rhode Island - Hazardous Substance List

- Dipentaerythritol 126-58-9 7% TO 13% Not Listed
- Melamine 108-78-1 7% TO 13% Not Listed
- Titanium oxide 13463-67-7 7% TO 13% Toxic

Additional Regulatory Information

- WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16 - Other Information

Preparation Date

- 12/7/2010

Last Revision Date

- 12/7/2010

Acronyms/Definitions

- No data available

Disclaimer/Statement of Liability

- Reasonable care has been taken in the preparation of this information, but the 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.

Key to abbreviations

NDA = No Data Available