

Safety Data Sheet

Section 1: Identification

Product identifier

- Product Name**
- **CertaSpray® Polyurethane Foam CT10110-3; also includes CertaSpray® X (CSX) Polyurethane Foam**
 - Product Literature Code: 30-50-050.

Relevant identified uses of the substance or mixture and uses advised against

- Recommended use**
- Cured polyurethane form

Details of the supplier of the safety data sheet

- Manufacturer**
- CertainTeed Corporation
750 E. Swedesford Road
P.O. Box 860 Valley Forge, PA 19482-0105
United States
www.certainteeted.com
Building.Solutions@saint-gobain.com

Telephone (General) • 610-341-7000

Emergency telephone number

- Manufacturer**
- (800) 424-9300 - Chemtrec

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

- OSHA HCS 2012**
- Not classified

Label elements

OSHA HCS 2012

- Hazard statements** • No label elements(s) required

Other hazards

- OSHA HCS 2012**
- No hazards expected in normal conditions of use. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard) this product does not meet the criteria of a hazardous chemical.

Canada

According to: WHMIS

Classification of the substance or mixture

- WHMIS**
- Not classified

Label elements

WHMIS

- No label element(s) required

Other hazards

WHMIS

- No hazards expected in normal conditions of use.
In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS)

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Polyvinyl Chloride	CAS:9002-86-2	82% TO 85%	NDA	OSHA HCS 2012: STOT RE 2 (Lungs); Comb. Dust	NDA
Polymer	NDA	13% TO 30%	NDA	OSHA HCS 2012: Not Classified	NDA
Fire retardant	NDA	13% TO 30%	NDA	OSHA HCS 2012: Acute Tox. 4 (orl)	NDA
Tertiary amine catalyst	NDA	7% TO 13%	NDA	OSHA HCS 2012: Acute Tox. 4 (skn); Eye Dam. 1; Skin Corr. 1	NDA
Limestone	CAS:1317-65-3 EC Number:215-279-6	1% TO 6.5%	NDA	OSHA HCS 2012: Not Classified	NDA
Diethylene glycol	CAS:111-46-6 EC Number:203-872-2 EU Index:603-140-00-6	1% TO 3%	Ingestion/Oral-Rat LD50 • >23500 mg/kg Skin-Rabbit LD50 • 12500 mg/kg Inhalation-Rat LC50 • >5.08 mg/L 4 Hour(s)	OSHA HCS 2012: Eye Irrit. 2; STOT SE 3: Narc.; STOT SE 2 (CNS, Kidneys); STOT RE 2 (CNS, Kidneys, Liver)	NDA

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or poison control center.

Skin

- Rinse skin immediately with plenty of water for 15-20 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. Get medical attention immediately.

- Eye**
- Flush eyes with water for at least 15 minutes while holding eyelids open. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- Ingestion**
- Rinse mouth. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • In case of fire use media as appropriate for surrounding fire.

Unsuitable Extinguishing Media • None known.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Containers may explode when heated.
Runoff from fire control or dilution water may cause pollution.

Hazardous Combustion Products • Upon decomposition, this product emits carbon monoxide, carbon dioxide, nitrogen oxide and/or low molecular weight hydrocarbons.

Advice for firefighters

- Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Dike fire-control water for later disposal; do not scatter the material.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions • Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist, vapors, or spray. Avoid contact with skin, eyes or clothing.

Emergency Procedures • Eliminate all ignition sources. Stop leak if you can do it without risk. As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Ventilate closed spaces before entering. Stay upwind. Keep unauthorized personnel away. Keep out of low areas.

Environmental precautions

- Do not allow material or runoff to contact soil or enter waterways, drains and sewers. Water polluting material. May be harmful to the environment if released in large quantities. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

Methods and material for containment and cleaning up

Containment/Clean-up Measures • Move containers from spill area.
Do not flush to sewer or allow to enter waterways.
Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container.
Contaminated absorbent material may exhibit the same hazard(s) as the spilled product.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapors, or spray. Avoid contact with skin, eyes or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Storage

- Keep container tightly closed. Keep only in the original container. Keep out of direct sunlight. Store in a cool, dry, well-ventilated place. Keep away from incompatible materials. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Limestone (1317-65-3)	TWAs	Not established	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)
Polyvinyl Chloride	TWAs	1 mg/m ³ TWA (respirable fraction)	Not established	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>

Exposure Control Notations

ACGIH

- Polyvinyl Chloride (9002-86-2): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Exposure Limits Supplemental

ACGIH

- Polyvinyl Chloride (9002-86-2): **TLV Basis - Critical Effects:** (lower respiratory tract irritation; pneumoconiosis; pulmonary function)

Exposure controls

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.

Personal Protective Equipment

Respiratory

- When spraying/applying this product, approved MSHA/NIOSH positive-pressure, supplied air respiratory protection may be required depending on the adequacy of ventilation to maintain exposures below applicable exposure control limits. MSHA/NIOSH approved, air purifying respirators with organic vapor and HEPA (P100) cartridges, may be used for non-sensitized individuals when a cartridge change out schedule is in place in accordance with the OSHA Respiratory Protection Standard (29CFR 1910.134).

Eye/Face

- Wear splash goggles.

- Hands**
 - Chemical-resistant, impervious gloves should be worn at all times when handling this product.
- Skin/Body**
 - Wear chemical resistant apron or full body suit.
- Environmental Exposure Controls**
 - Avoid release to the environment. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

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

NIOSH = National Institute of Occupational Safety and Health

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

OSHA = Occupational Safety and Health Administration

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Light milky, brown liquid.
Color	Light milky, brown.	Odor	No data available
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	= 1.2 Water=1	Water Solubility	No data available
Viscosity	750 Centipoise (cPs, cP) or mPas Dynamic (room temperature)		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	> 110 C(> 230 F) CC (Closed Cup)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal conditions of use.

Possibility of hazardous reactions

- Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid

- None specified.

Incompatible materials

- None specified.

Hazardous decomposition products

- Upon decomposition, this product emits carbon monoxide, carbon dioxide, nitrogen oxide and/or low molecular weight hydrocarbons.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Diethylene glycol (1% TO 3%)	111-46-6	Acute Toxicity: Ingestion/Oral-Rat TDLo • 16000 mg/kg; <i>Kidney, Ureter, and Bladder:Renal function tests depressed; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Metabolic acidosis;</i> Tumorigen / Carcinogen: Ingestion/Oral-Mouse TDLo • 420 mg/kg 22 Week(s)-Intermittent; <i>Tumorigenic:Neoplastic by RTECS criteria; Blood:Tumors</i>
Polyvinyl Chloride (82% TO 85%)	9002-86-2	Acute Toxicity: Intratracheal-Rat TDLo • 50 mg/kg; <i>Lungs, Thorax, or Respiration:Fibrosing alveolitis; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Dehydrogenases;</i> Tumorigen / Carcinogen: Ingestion/Oral-Rat TDLo • 210 g/kg 30 Week(s)-Continuous; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Skin and Appendages:Other:Tumors</i>
Limestone (1% TO 6.5%)	1317-65-3	Multi-dose Toxicity: Inhalation-Rat TClO • 84 mg/m ³ 4 Hour(s) 40 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Liver:Other changes; Kidney, Ureter, and Bladder:Other changes;</i> Inhalation-Rat TClO • 250 mg/m ³ 2 Hour(s) 24 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis)</i>

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • No data available
Aspiration Hazard	OSHA HCS 2012 • No data available
Carcinogenicity	OSHA HCS 2012 • No data available
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • No data available
Skin sensitization	OSHA HCS 2012 • No data available
STOT-RE	OSHA HCS 2012 • No data available
STOT-SE	OSHA HCS 2012 • No data available
Toxicity for Reproduction	OSHA HCS 2012 • No data available
Respiratory sensitization	OSHA HCS 2012 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • No data available

Potential Health Effects

Inhalation

- Acute (Immediate)** • No data available
- Chronic (Delayed)** • No data available

Skin

- Acute (Immediate)** • No data available
- Chronic (Delayed)** • No data available

Eye

- Acute (Immediate)** • No data available
- Chronic (Delayed)** • No data available

Ingestion

- Acute (Immediate)** • No data available
- Chronic (Delayed)** • No data available

Key to abbreviations

TC = Toxic Concentration

TD = Toxic Dose

Section 12 - Ecological Information

Toxicity

- Material data lacking.

Persistence and degradability

- Material data lacking.

Bioaccumulative potential

- Material data lacking.

Mobility in Soil

- Material data lacking.

Other adverse effects

- No known significant effects or critical hazards.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, Chronic

State Right To Know		
Component	CAS	PA
Diethylene glycol	111-46-6	Yes
Limestone	1317-65-3	Yes
Polyvinyl Chloride	9002-86-2	No

Inventory				
Component	CAS	Canada DSL	Canada NDSL	TSCA
Diethylene glycol	111-46-6	Yes	No	Yes
Limestone	1317-65-3	No	Yes	Yes
Polyvinyl Chloride	9002-86-2	Yes	No	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Polyvinyl Chloride	9002-86-2	Uncontrolled product according to WHMIS classification criteria
• Limestone	1317-65-3	D2A
• Diethylene glycol	111-46-6	D1B

Canada - WHMIS - Ingredient Disclosure List

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

Environment

Canada - CEPA - Priority Substances List

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

United States

Labor

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

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

Environment

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

• Polyvinyl Chloride	9002-86-2	Not Listed
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• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

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

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

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

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

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

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

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

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

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

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

United States - California

Environment

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

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

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

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

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

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

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

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

United States - Pennsylvania

Labor

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

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

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

• Polyvinyl Chloride	9002-86-2	Not Listed
• Limestone	1317-65-3	Not Listed
• Diethylene glycol	111-46-6	Not Listed

Section 16 - Other Information

Last Revision Date

- 02/July/2015

Preparation Date

- 02/July/2015

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 Safety Data Sheet before handling product.

Key to abbreviations

NDA = No Data Available