Section 1: Identification

Product identifier

Product Name
- CertaSpray X (CSX) Open Cell - CT10174

Product Code
- Product Lit. Code: 30-50-112

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

Recommended use
- Component of a polyurethane system

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.certainteed.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
- Skin Irritation 2
- Serious Eye Damage 1
- Specific Target Organ Toxicity Single Exposure 2
- Specific Target Organ Toxicity Repeated Exposure 2

Label elements

OSHA HCS 2012

DANGER

Hazard statements
- Causes skin irritation
- Causes serious eye damage
- May cause damage to organs.
- May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention
- Do not breathe mists, vapours, and/or spray.
- Wash thoroughly after handling.
Do not eat, drink or smoke when using this product. Wear protective gloves and eye/face protection.

Response
If on skin: Wash with plenty of water. Take off contaminated clothing and wash before reuse. Specific treatment, see supplemental first aid information. If skin irritation 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. Immediately call a POISON CENTER or doctor/physician. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Storage/Disposal
Store locked up. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards
OSHA HCS 2012

Canada
According to: WHMIS

Classification of the substance or mixture
WHMIS
• Toxic - D1B
  Other Toxic Effects - D2B

Label elements
WHMIS

Other hazards
WHMIS
• In Canada, the product mentioned above is 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymer</td>
<td>NDA</td>
<td>13% TO 30%</td>
<td>NDA</td>
<td>OSHA HCS 2012: Not Classified</td>
<td>NDA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Inhalation-Rat LC50 &gt;7.19 mg/L</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 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**
- 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.

**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**
- Decomposition products may include the following materials: carbon dioxide, Carbon monoxide, nitrogen oxides, phosphorus oxides, halogenated compounds.

**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
- No applicable exposure limits available for product or components.

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 or 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.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

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

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

- Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 - Toxicological Information

Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
<th>Acute Toxicity: Ingestion/Oral-Rat TDLo • 16000 mg/kg; Kidney, Ureter, and Bladder: Renal function tests depressed; Nutritional and Gross Metabolic: Changes in Chemistry or Temperature: Metabolic acidosis; Irritation: Skin-Rabbit • 500 mg • Mild irritation; Tumorigen / Carcinogen: Ingestion/Oral-Mouse TDLo • 420 mg/kg 22 Week(s)-Intermittent; Tumorigenic: Neoplastic by RTECS criteria; Blood: Tumors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol (1% TO 3%)</td>
<td>111-46-6</td>
</tr>
<tr>
<td>Fire retardant (13% TO 30%)</td>
<td>Acute Toxicity: Ingestion/Oral-Rat, adult female LD50 • 632 mg/kg; Ingestion/Oral-Rat, adult male LD50 • &gt;500; Inhalation-Rat LC50 • &gt;7.19 mg/L • Comments: OECD 403 Acute Inhalation Toxicity; Skin-Rabbit LD50 • &gt;2000 mg/kg • Comments: OECD 402 Acute Dermal Toxicity; Irritation: Eye-Rabbit • Essentially non-irritating • Comments: OECD 405 Acute Eye Irritation/Corrosion; Skin-Rabbit • Essentially non-irritating • Comments: OECD 404 Acute Dermal Irritation/Corrosion</td>
</tr>
<tr>
<td>Tertiary amine catalyst (7% TO 13%)</td>
<td>Acute Toxicity: Ingestion/Oral-Rat LD50 • 2337 mg/kg; Skin-Rabbit LD50 • 1334 mg/kg; Irritation: Eye-Rabbit • Severe irritation • Comments: OECD 405 Acute Eye Irritation/Corrosion; Skin-Rabbit • Severe irritation, irreversible, burns (corrosive) • Comments: OECD 404 Acute Dermal Irritation/Corrosion</td>
</tr>
</tbody>
</table>

GHS Properties

- 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 • Skin Irritation 2
- Skin sensitization: OSHA HCS 2012 • No data available
- STOT-RE: OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2
- STOT-SE: OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 2
- Toxicity for Reproduction: OSHA HCS 2012 • No data available
- Respiratory sensitization: OSHA HCS 2012 • No data available
- Serious eye damage/Irritation: OSHA HCS 2012 • Serious Eye Damage 1

Potential Health Effects

Inhalation

- Acute (Immediate): May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
- Chronic (Delayed): No data available

Skin
Acute (Immediate)  
 Causes skin irritation.

Chronic (Delayed)  
 No data available

Eye  
 Acute (Immediate)  
 Causes serious eye damage.

Chronic (Delayed)  
 No data available

Ingestion  
 Acute (Immediate)  
 May cause burns to mouth, throat and stomach.

Chronic (Delayed)  
 No data available

Other  
 Acute (Immediate)  
 May cause damage to Central Nervous System and Kidneys.

Chronic (Delayed)  
 May cause damage to Central Nervous System, Kidneys, and Liver through prolonged or repeated exposure.

Key to abbreviations  
 LC = Lethal Concentration  
 LD = Lethal Dose  
 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

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class (es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>
Section 15 - Regulatory Information

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

SARA Hazard Classifications

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Special precautions for user
- None specified.

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

### Canada

#### Labor
- Canada - WHMIS - Classifications of Substances
  - Diethylene glycol 111-46-6 D1B
- Canada - WHMIS - Ingredient Disclosure List
  - Diethylene glycol 111-46-6 Not Listed

#### Environment
- Canada - CEPA - Priority Substances List
  - Diethylene glycol 111-46-6 Not Listed

### United States

#### Labor
- U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals
  - Diethylene glycol 111-46-6 Not Listed
- U.S. - OSHA - Specifically Regulated Chemicals
  - Diethylene glycol 111-46-6 Not Listed

#### Environment
- U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
  - Diethylene glycol 111-46-6 Not Listed
- U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
  - Diethylene glycol 111-46-6 Not Listed
- U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities
  - Diethylene glycol 111-46-6 Not Listed
## United States - California

### Environment
- **U. S. California - Proposition 65 - Carcinogens List**
  - Diethylene glycol
  - CAS No: 111-46-6 Not Listed
- **U. S. California - Proposition 65 - Developmental Toxicity**
  - Diethylene glycol
  - CAS No: 111-46-6 Not Listed
- **U. S. California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**
  - Diethylene glycol
  - CAS No: 111-46-6 Not Listed
- **U. S. California - Proposition 65 - No Significant Risk Levels (NSRL)**
  - Diethylene glycol
  - CAS No: 111-46-6 Not Listed
- **U. S. California - Proposition 65 - Reproductive Toxicity - Female**
  - Diethylene glycol
  - CAS No: 111-46-6 Not Listed
- **U. S. California - Proposition 65 - Reproductive Toxicity - Male**
  - Diethylene glycol
  - CAS No: 111-46-6 Not Listed

## United States - Pennsylvania

### Labor
- **U. S. Pennsylvania - RTK (Right to Know) - Environmental Hazard List**
  - Diethylene glycol
  - CAS No: 111-46-6 Not Listed
- **U. S. Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**
  - Diethylene glycol
  - CAS No: 111-46-6 Not Listed

## Other Information
- **WARNING**: This product contains a chemical known to the State of California to cause cancer.

## Section 16 - Other Information

- **Last Revision Date**: 10/February/2015
- **Preparation Date**: 10/February/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