

Material Safety Data Sheet

CertainTeed

CertainTeed Corporation
P.O. Box 860
Valley Forge, PA 19482
(215) 341-7000

(24 Hour Telephone)

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Product Identification (Label Name)	Certeyin TM CT-1110 PVC Polymer	Chemical Name	Ethene, Chlorohomopolymer
NFPA Rating	Health 1 Fire 1 Reactivity 0	CAS No.	9002-86-2
HMIS Rating	1* 1 0	Common Name(s)	Polyvinyl chloride; PVC; Polyvinyl chloride resin
DEGREE OF HAZARD 0-Minimal (Insignificant) 1-Slight 2-Moderate 3-Serious (High) 4-Severe (Extreme) *-Chronic Health Effect(s)			

1. INGREDIENTS

Chemical Name (CAS No.)	Common Name	Exposure Limits	%
PVC is not considered a hazardous material under current Department of Labor definitions.		None Established	ca 100
PVC may contain trace amounts of the following materials: *Ethene, Chloro (CAS 75-01-4)	vinyl chloride (VCM)	OSHA PEL: 1 ppm ACGIH TLV: 5 ppm	trace
Ethene, Trichloro (CAS 79-01-6)	trichloroethylene	OSHA PEL: 100 ppm ACGIH TLV: 50 ppm	trace
These chemicals are both listed on California's Proposition 65 and on EPA, SARA, TITLE III Section 313 but not on Section 302.			
* IARC, NTP and OSHA carcinogen			

2. PHYSICAL DATA

Boiling Point	N/A - solid	% Volatile By Volume	N/A	Melt Point	
Vapor Density (Air = 1)	N/A - solid	% Solubility (H ₂ O)	negligible	Specific Gravity	1.40
Vapor Pressure	N/A - solid	Appearance	powder, white		
Odor					

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3. FIRE AND EXPLOSION HAZARD DATA

Flash Point & Method About 391°C (735°F) Method: Not specified

Flammable Limits
LEL N/A UEL N/A

Extinguishing Media Water most effective. ABC dry chemical.

Special Fire Fighting Procedures Wear positive pressure, self-contained breathing apparatus (SCBA) when fighting a fire and during clean up immediately after a fire.

Unusual Fire and Explosion Hazard Combustion or thermal decomposition yields carbon dioxide, carbon monoxide, hydrogen chloride (gas) and small amounts of aromatic and aliphatic hydrocarbons. Vinyl resin is not considered to be a dust explosion risk. As a precaution it is prudent to employ standard safety measures used in handling finely divided organic powders.

4. HEALTH EFFECTS

Primary Routes of Entry Inhalation, ingestion

Carcinogens None IARC No NTP No OSHA No

Acute: No significant toxic hazard.

Chronic: No significant toxic hazard.

Conditions Aggravated By: Decomposition products may cause irritation to respiratory tract and aggravate bronchial asthma and other chronic obstructive respiratory diseases.

Dust Exposure: PVC resin is not known to cause any lung disease when dust exposure is minimized. Routine inhalation of any kind of dust should be avoided.

At processing temperatures the resin, stabilizers, lubricants, modifiers, etc., may emit irritating fumes and vapors including hydrogen chloride.

Special Note: PVC resin is not a cancer suspect agent. It is the trace amount of unreacted vinyl chloride monomer that must be controlled, not the PVC itself. Employee exposure to vinyl chloride, a carcinogen, is regulated by OSHA (29 CFR 1910.1017). The OSHA PEL is 1.0 ppm for an 8 hour time weighted average (TWA) or 5.0 ppm average for 15 minutes. The action level is 0.5 ppm for an 8 hour TWA. (See also Section 11.)

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5. EMERGENCY AND FIRST AID PROCEDURES

Skin: Flush thoroughly with cool water for at least 5 minutes.

Eyes: Flush with water for at least 15 minutes. Get medical attention.

Inhalation: Remove to fresh air. Get medical attention.

Ingestion: Consult a physician. Treat as inert, granular material.

6. PHYSICAL HAZARDS

None

7. SPECIAL PROTECTION INFORMATION

Respiratory: Not normally required. Abnormal conditions during processing may cause decomposition. Wear NIOSH/MSHA approved self-contained breathing apparatus when removing decomposed materials.

If dusty conditions exist, wear NIOSH/MSHA approved nuisance dust respirator.

Gloves: When handling hot material during processing.

Eyes: Goggles for dust protection.

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REACTIVITY

able. Hazardous polymerization will not occur. Avoid excessive heat for prolonged periods. Avoid contact with acetal or acetyl copolymers and with amine containing materials during processing. At processing conditions these compounds are mutually destructive and involve rapid degradation even in trace amounts.

9. STORAGE INFORMATION

Store in cool, dry place (for product quality). Remove PVC resins from floors and walkways to prevent slipping.

Ground pneumatic transfer lines to avoid electrostatic accumulation hazard.

10. SPILL, LEAK, AND DISPOSAL INFORMATION

Vacuum or sweep into a closed container for reuse or disposal.

Waste Disposal Method

Dispose of wastes in a licensed landfill or by incinerating in accordance with federal, state and local regulations. Hydrogen chloride is generated by incineration. PVC resins are not defined as hazardous by current provisions of the Resource Conservation and Recovery Act (RCRA-40 CFR 261).

11. ADDITIONAL COMMENTS

Always use PVC compound under well-ventilated conditions and avoid continued or prolonged breathing of process vapors. Wash thoroughly after handling resin, especially before eating or smoking.

Warning on Resin Containers: When the further processing of PVC resin will be likely to result in employee exposure to VCM at or above the action level, the OSHA Regulation requires the label state:
"Polyvinyl chloride contains vinyl chloride. Vinyl chloride is a cancer suspect agent."

Acronyms used in this MSDS:

N/A: Not applicable
CAS No.: Chemical Abstracts Service Number
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
LEL: Lower explosive limit
UEL: Upper explosive limit
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program
NIOSH: National Institute for Occupational Safety and Health
MSHA: Mine Safety and Health Administration
EPA: Environmental Protection Agency US
HMIS: Hazardous Material Identification System
NFPA: National Fire Protection Association
SARA: Superfund Amendments & Reauthorization Act
TITLE III: Emergency Planning & Community Right to Know Act
Section 302 - Extremely Hazardous Substances
Section 313 - Toxic Chemicals
ACGIH: American Conference of Governmental Industrial Hygienist
TLV: Threshold Limit Value
PPM: Parts Per Million

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