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Pipe & Plastics Group
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Sulphur, LA 70663
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CertainTeed 

October 16, 1986

Mr. Herb Rose
H. Muehlstein & Company, Inc.
591 West Putman Avenue
Greenwich, Connecticut 06830

ATTENTION: PLANT MANAGER/GENERAL MANAGER

RE: MATERIAL SAFETY DATA SHEET (MSDS)

PLEASE ATTACH PARTICULAR IMPORTANCE TO THIS LETTER

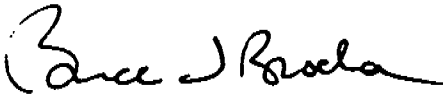
Enclosed is the Material Safety Data Sheet for the PVC Polymer that your company recently received from CertainTeed Corporation. This product and its code number is:

CERTAVIN™ CT-1110

This letter is directed to you as our official contact for your company. If someone other than yourself is responsible for the safe handling and use of our product, please see that this person receives this form. We would also appreciate it if you would forward to us that individual's full name, title, and mailing address. In the future, we may have occasion to update this Material Safety Data Sheet with significant new information. In such a case, we would want to forward the revised sheet to the proper person.

Thank you for your cooperation. We value your business highly, and will continue to make every effort to provide you the information you need to use our product safely.

Sincerely,



Bruce J. Brocka
Technical Supervisor

BJB:srf

Attachment

CTL003017

Material Safety Data Sheet

CertainTeed

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

Date Prepared 11/15/85

Product Identification (Label Name) CertavinTM CT-1110
PVC Polymer

Chemical Name Ethene, Chlorohomopolymer

CAS No. 9002-86-2

Common Name(s) Polyvinyl chloride; PVC;
Polyvinyl chloride resin

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
* 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	CTL003018
Odor		

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.)

CTL003019

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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8. REACTIVITY

Stable. 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."

CTL003021