



Crane Materials International

Material Safety Data Sheet

1. Chemical Product and Company Identification

March 2004

Chemical Products: Vinyl Sheet Piling
Synonyms: Polyvinyl chloride, PVC, vinyl

Company Identification

Crane Materials International
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2. Hazardous Composition

CAS #	Component	Percent
471-34-1	Calcium carbonate	1 - 5 %
13463-67-7	Titanium dioxide	5 - 10 %

3. Hazards Identification

Hazard Summary Statement:

Handling of powder compound may result in the generation of dust. The dust particles are classed as a nuisance dust. Exposure to the dust may cause physical irritation of contacted areas.

Under burning condition, HCL gas may be produced. HCL gas is irritating to the upper respiratory tract. Exposure to high concentrations of HCL gas may be fatal.

PVC compound may contain trace amounts of vinyl chloride monomer. VCM is regulated as a carcinogen by OSHA, and is listed by NTP and IARC as a carcinogen. Under normal processing conditions, significant exposure to VCM should not occur.

Note: PVC Dryblend contains less than or equal to 8.5 ppm residual vinyl chloride monomer.

4. First Aid Measures

Eye Contact: Flush eyes with water for at least 15 minutes while lifting upper and lower eyelids. Seek medical attention if irritation persists.

Skin Contact: Not an anticipated hazard, however, good personal hygiene practices are always recommended for material handling.

Ingestion: Not an anticipated hazard.

5. Fire-Fighting Measures

Extinguishing media: Water, foam, dry chemical

Special Fire-fighting Procedures: Wear self-contained breathing apparatus (SCBA) in positive pressure mode. Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic combustion gases from any source. In enclosed or poorly ventilated areas, wear SCBA during cleanup immediately after a fire as well as during the attack phase of fire fighting operations.

Special Protective Equipment: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

Unusual fire and explosion Hazards: Powder compounds burn with difficulty because a substantial amount of energy is required to break down the polymer into smaller fragments that will sustain combustion in the gas phase, principally as a consequence of the action of the halogen content of the material. Consequently powder compounds are difficult to ignite. Fires will tend to extinguish naturally in the absence of a substantial external source of heat or flame. Hydrogen chloride is generated during combustion and acts as a flame quencher in the vapor stage. Powder compounds will release less heat than many other combustible materials. Precautions should be taken similar to those of any other combustible material, e.g. wood or other plastics.

NFPA Hazard ID. Health 0; Flammability: 1; Reactivity: 0

Hazardous Decomposition Product: Hydrogen chloride, Carbon dioxide

6. Accidental Release Measures

Notification Procedures: None.

Procedures if material is Released or Spilled: Vacuum or sweep material into a clean properly labeled container for reuse or disposal. Prevent spills from entering storm sewers or drains.

Personal Precautions: See Section 8

7. Handling and Storage

Handling: As with any product, should dusting occur from material handling, sources or ignition, such as static discharge, should be addressed by the user to prevent the ignition and sudden release of energy from suspended, finely divided particulate. Remove product from walkways and floors to prevent slipping hazards.

Storage: Sprinkled warehouse areas are recommended. The product by itself will not readily support combustion; however, materials such as wooden pallets, paper bags, cardboard boxes and other combustibles can provide sufficient fuel to cause the product to burn.

8. Exposure Controls/Personal Protection

Respiratory Protection: Approved dust respirators must be used for dusty conditions or if breathing of powder is likely. No special requirements under ordinary conditions of use and with adequate ventilation.

Eye Protection: Safety glasses with side shields, or goggles should be worn to protect against dust particles.

Skin Protection: No special equipment required. However, good personal hygiene practices should always be followed.

9. Physical and Chemical Properties

Typical physical properties are given below:

Appearance: Solid shape
Color: Slight Green
Odor: Slight

Flash Point: NE
Volatile Organic Compound: NE
Specific Gravity: Range 1.5- 2.0

10. Stability and Reactivity

Stability (Thermal, Light, Etc.): Stable

Conditions to Avoid: Extreme heat.

Incompatibility (materials to avoid): Strong oxidizers. Also, avoid contact with acetal or acetal copolymers and with amine containing materials during processing.

Hazardous Decomposition Products: Hydrogen chloride, carbon monoxide, carbon dioxide and small amounts of benzene and aromatic and aliphatic hydrocarbons sometimes with aliphatic olefins. CAUTION! Prolonged heating of the product above 250° C (482° F) may result in rapid evolution of hydrogen chloride.

Hazardous Polymerization: Will not occur.

11. Toxicological Data

No Data Available

12. Ecological Information

Environmental fate and effects: Not established

13. Disposal Considerations

Waste Disposal: Dispose of waste in accordance with all federal, state and local regulations.

14. Transport Information

U.S. DOT: Not Regulated

15. Regulatory Information:

Toxicity Characteristic Leaching Procedure (TCLP): This product may or may not be hazardous. Material must be checked utilizing this procedure prior to disposal. Any physical or chemical modification of this product may change the TCLP test results.

16. Other Information:

None

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; All risks of use of the product are therefore assumed by the user and we expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

Prepared by: Crane Plastics Company
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