

Product Name: **PVC and CPVC Thermoplastic**

Synonyms: **Polyvinyl Chloride and  
Chlorinated Polyvinyl Chloride**

## **PVC & CPVC**

### **Composition / Information on Ingredients**

All ingredients are bound-up in the manufacturing process and are not expected to create any hazard in handling or use. Finished goods (e.g. rigid pipe, bar stock, duct, angle, joining strip or profile) are inert.

### **Physical and Chemical Properties**

Boiling Point: N/A  
Melting Point: N/A  
Vapor Pressure: N/A  
Vapor Density: N/A  
Solubility in water: insoluble  
% Volatile by weight: N/A  
Specific Gravity: (H<sub>2</sub>O = 1) 1.35-1.55  
Appearance and Odor: rigid pipe, bar stock, duct, angle, joining strip or profile. No odor.

### **Fire and Explosion Hazards**

Flashpoint: Not applicable to solid products.

Ignition Temperature:  
PVC: >730°F (>388°C)  
CPVC: >830°F (>433°C)

Flammable Limits in Air (% by volume): Lower - N/A ; Upper - N/A

Extinguishing Media: Water spray, ABC dry chemical, AFFF, protein type air foams. Carbon dioxide may be ineffective on larger fires due to a lack of cooling capacity, which may result in reignition.

Firefighting Instructions: Wear positive pressure self-contained breathing apparatus (SCBA). 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 clean-up immediately after a fire as well as during the attack phase of firefighting operations.

Unusual Fire and Explosion Hazards: None known.

### **Stability and Reactivity**

Chemical Stability: Stable.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: CO, CO<sub>2</sub> hydrogen chloride and small amounts of benzene and aromatic and aliphatic hydrocarbons. CPVC may also contribute small amounts of chloroform and carbon tetrachloride.

### **Health Hazard Identification**

Threshold Limit Value: None established.

Effects of Overexposure:

There are no significant health hazards from vinyl compound at ambient temperature. Inhalation of decomposition or combustion products, especially hydrogen chloride, will cause irritation of the respiratory tract, eyes and skin. Depending on the severity of exposure, physiological response will be coughing, pain and inflammation. Individuals with bronchial asthma and other types of chronic obstructive respiratory diseases may develop bronchospasm if exposure is prolonged.

## PVC & CPVC (cont.)

### ***First Aid Procedures***

---

If irritation persists from exposure to decomposition products, remove the affected individual from the area. Provide protection before reentry.

### ***Disposal Considerations / Spill or Leak Procedures***

---

Material is inert. Place into a container for reuse or disposal.

Water Disposal Method: Dispose of waste in accordance with federal, state and local regulations. For waste disposal purposes these products are not defined or designated as hazardous by current provisions of the Federal Resources Conservation and Recovery Act (RCRA) 40CFR261.

### ***Exposure Controls / Personal Protection***

---

**Ventilation:**

Provide efficient exhaust at all operations capable of creating fumes or vapors. Cutting or sawing, machining, heat welding, thermofolding and other operations involving heat sufficient to result in degradation should be examined to ensure adequate ventilation.

**Respiratory Protection:**

Not normally required. If overheating results in decomposition resulting in smoke or fumes, a NIOSH/MSHA approved combination high efficiency particulate filter with organic vapor cartridge can be used. Gross decomposition may require the use of a positive pressure self-contained breathing apparatus.

**Protective Equipment:**

Wear safety glasses.

### ***Handling and Storage***

---

As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions, in addition to those described herein, are required. Any health hazard and safety information contained herein should be passed on to your customers or employees, as the case may be.

### ***Transport Information***

---

For domestic transportation purposes, these products are not defined or designated as a hazardous material by the U.S. Department of transportation under Title 49 of the Code of Federal Regulations, 1983 Edition.

DOT Proper Shipping name: N/A  
DOT Hazard Class: Not hazardous  
DOT label: None required  
UN/NA Hazard No.: N/A

*Disclaimer: The information herein is given in good faith but no warranty, expressed or implied, is made.*