

PVC**1. General information**

The information contained herein was obtained from sources believed to be reliable; Electrochemical Devices, Inc. (EDI) disclaims all liability for the content. This information applies to material in bulk form and may not be relevant to the small quantities of material used in our products. Commercial grade PVC pipe, tubing and fittings are used for housings on EDI reference electrodes.

Synonyms: None

CAS#: 9002-86-2

2. Hazard Overview

General: There are no significant health hazards associated with PVC pipe products under normal conditions of use or from mechanical working or forming the product.

Acute

Swallowed: There are no known health effects for the ingestion of PVC.

Eye and Skin: Inapplicable to the solid except for mechanical injury. Dust from sawing may affect eyes if not protected. Hydrogen chloride and other fumes emitted during combustion cause irritation to the eyes and skin.

Inhaled: Inapplicable to the solid product. Inhalation of combustion products, especially hydrogen chloride, causes irritation of the respiratory tract. Individuals with bronchial asthma and other chronic obstructive respiratory diseases may develop broncho-spasm if exposure is prolonged.

Chronic: Inhalation of PVC dust created by mechanical working has been reported to cause fine nodules visible on chest X-rays. Contact with heavy concentrations of gaseous combustion by-products may result in formation of permanent scar tissue.

3. First Aid

Swallowed: No harmful effect.

Eye and Skin: No special treatment. Treat mechanical injury and dust contact by normal procedures. Gaseous combustion by-products: Irrigate with fresh water, seek medical assistance if effect persists. If molten material contacts skin and adhere, cool quickly with running water DO NOT attempt to remove. Seek medical advice.

Inhaled: Gaseous combustion by-products: Remove from source of exposure. Seek medical advice.

First Aid Facilities: No special requirements.

Advice to Doctor: Treat symptomatically.

4. Fire Fighting

Fire/Explosion Hazard: Combustible, self-extinguishing. No explosion risk. If forced to burn will emit dense acrid fumes containing noxious and toxic compounds including carbon monoxide, carbon dioxide and hydrogen chloride. Carbon dioxide is an asphyxiant. Carbon monoxide is toxic. Hydrogen chloride is highly acidic and a severe irritant in low concentrations. All are potentially lethal in high concentrations with sustained exposure. Hydrogen chloride has a highly detectable pungent odour, and is intolerable in very low concentrations. The risk of exposure to hazardous levels for sustained periods is therefore considered low.

Fire-Fighting Procedures: Wear fully protective body suit with self-contained breathing apparatus (S.C.B.A) to prevent contact with gases produced during combustion.

Fire Extinguishing Media: Use water, water fog or foam to extinguish fires. Carbon Dioxide or Dry Chemical are suitable, but are not preferred, as lack of cooling capacity may result in re-ignition.

5. Accidental Release

Spillage: not applicable.

Disposal: Recycle where possible. Refer to appropriate environmental protection agency/authority. Normally suitable for disposal as general waste land fill.

6. Handling and Storage

No special requirements.

7. Exposure Control

Personal Protection: No special protection required. Gloves are advisable when handling cut ends of pipes. May shatter if impacted under stress, particularly when cold. When working with the product, normal safety glasses are recommended, and dust mask if sawing with abrasive wheel or sanding.

8. Physical and Chemical Characteristics

Appearance: Opaque rigid solid tubes; various fittings to match, e.g. tees, ells, reducers, etc.

Boiling Point/Melting Point: Softening point: >75 C. Decomposition initiates at approximately 140 C

Vapour Pressure: Not Applicable

Relative density: 1.3-1.6

Flashpoint: Not Applicable

Flammability Limits: Combustible, Self-Extinguishing.

Solubility in Water: Insoluble.

9. Stability and Reactivity

Stability: stable

Incompatibility: None known

10. Toxicological Information

No LD50 data is available for product.

11. Ecological Information

No data available.