



## MATERIAL SAFETY DATA SHEET

### SECTION 1. PRODUCT IDENTIFICATION

**MATERIAL NAME:** CPVC Pipe and Fittings

**PRODUCT USE:** Hot and cold water, sprinkler systems, and industrial piping

### SECTION 2. PREPARATION INFORMATION

<p><b><u>MANUFACTURER/SUPPLIER:</u></b> IPEX Inc. 807 Pharmacy Avenue Scarborough, Ontario Canada M1L 3K2</p>	<p><b><u>TELEPHONE NO.:</u></b> (416) 445-3400</p> <p><b><u>PREPARED BY:</u></b> Health, Safety and Environment</p> <p><b><u>DATE PREPARED:</u></b> March 9<sup>th</sup> 2015</p>
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### SECTION 3. HAZARDOUS INGREDIENTS

INGREDIENT NAME	WEIGHT	CAS	LD <sub>50</sub> /LC <sub>50</sub> / (Species/Route)	
	PERCENT*	Number		
CPVC compound (cubes, pellets, granules, and/or powder)	100%	68648-82-8	Not available	
Dibutyltin dilsooctyl mercapto acetate	1-10%	25168-24-5	Oral LD <sub>50</sub>	≅1100 mg/kg (rat)**
			Dermal LD <sub>50</sub>	≅6800 mg/kg (rabbit)**

\* Typical amount - not a specification

\*\* For similar tin compounds, not specifically dibutyltin diisooctyl mercapto acetate

### SECTION 4. PHYSICAL DATA

**PHYSICAL STATE:** Solid

**ODOUR AND APPEARANCE:** White, orange or grey, odourless

**BOILING POINT:** Not applicable

**VAPOUR PRESSURE:** Not applicable

**VAPOUR DENSITY:** Not applicable

**SPECIFIC GRAVITY:** 1.4 – 1.65

**pH:** Not applicable

**ODOUR THRESHOLD:** Not applicable

**EVAPORATION RATE:** Not applicable

**COEFFICIENT WATER/OIL DISTR:** Not applicable

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## SECTION 5. FIRE OR EXPLOSION HAZARD

<b>FIRE FIGHTING:</b>	Wear self-contained breathing apparatus (SCBA) equipped with a full face piece and operated in a pressure-demand mode or other positive-pressure mode and protective clothing. Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic gases from combustion, burning, or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of fire fighting operations. Run off water from fire fighting may have corrosive effects.
<b>EXTINGUISHING MEDIA:</b>	Water, ABC dry chemical, AFFF, and protein type air foams. CPVC compounds are "ordinary combustibles" (NFPA defined Class A). Carbon dioxide is not recommended for use on Class A fires as a lack of cooling capacity may result in reignition.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	<ul style="list-style-type: none"><li>- Irritating or toxic substances will be emitted upon combustion, burning, or decomposition. Smoke from burning CPVC will be very irritating.</li><li>- Thermal decomposition, combustion, or pyrolysis may emit CO, CO<sub>2</sub>, hydrogen chloride, hydrocarbons. Emissions: dependent on fire conditions.</li><li>- Hydrogen chloride, a combustion/decomposition product of CPVC, has a corrosive effect on many metals. Affected equipment surfaces and unprotected structural elements of buildings should be washed with a detergent based water solution to remove corrosive deposits as soon as possible after depositions have occurred.</li></ul>
<b>FLASH POINT:</b>	See conditions of flammability.
<b>LOWER FLAMMABLE LIMIT:</b>	Not applicable.
<b>UPPER FLAMMABLE LIMIT:</b>	Not applicable.
<b>AUTOIGNITION:</b>	Not available.
<b>CONDITIONS OF FLAMMABILITY:</b>	Flash-ignition temperature: $\cong 480^{\circ}\text{C}$ (Estimated result). Flash-ignition is the lowest initial temperature of air passing around the specimen at which sufficient combustible gas is evolved to be ignited by a small external pilot flame.
<b>EXPLOSION DATA:</b>	Not applicable

## SECTION 6. REACTIVITY DATA

<b>UNSTABILITY CONDITIONS:</b>	Overheating causes decomposition
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur
<b>INCOMPATIBLE SUBSTANCES:</b>	Avoid contact with acetal, acetal copolymers and amine containing materials during processing. If processed together, these materials may be mutually destructive and degrade rapidly. Prevent cross contamination of feedstocks.

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Thoroughly purge and mechanically clean processing equipment to prevent these materials from coming in contact with each other. Refer to technical service reports for specific equipment and procedural recommendations.

**HAZARDOUS DECOMPOSITION:** See “Hazardous Combustion Products”

## SECTION 7. TOXICOLOGICAL PROPERTIES

**SENTITIZATION:** None known

**IRRITANCY:** See “Potential Health Effects”

**CHRONIC/CARCINOGENICITY:** None known

**REPRODUCTIVE EFFECTS:** None known

### POTENTIAL HEALTH EFFECTS:

- None known or expected from product at ambient temperature. All components are physically bound in the matrix during our manufacturing process and are not expected to create an exposure to individual components when the product is handled, processed, and used in accordance with good manufacturing and industrial hygiene practice and by following the guidelines in this bulletin.

**EYE:** When cutting dust exposure may cause immediate or delayed eye irritation

**SKIN:**

- When cutting dust exposure may cause effects such as reddening, swelling, irritation, and dermatitis. The onset of symptoms may not occur until several hours after exposure.
- Molten product causes skin burns.

**INHALATION:**

- When cutting dust exposure may cause effects such as irritation of the nose, throat, respiratory tract and lungs. May cause nausea, headache, dizziness, lung damage, vomiting, dry throat, and abdominal pain.
- At elevated temperatures (e.g., processing temperature), this product may emit fumes and vapors that are irritating to the respiratory tract, eyes and/or skin of sensitive people. The concentration and composition of vapors will depend upon variables such as processing method and temperature. The potential for acute and/or chronic health effects will depend on the effectiveness of exhaust ventilation provided to the process area.
- Symptoms such as (but not limited to) coughing, tearing, and irritation must be regarded as potentially hazardous and measures taken to avoid exposure.
- Smoke from burning CPVC will be very irritating. Decomposition or combustion products cause irritation, possibly severe, to the eyes, respiratory tract, and skin. From any decomposing or burning material, overexposure may cause serious injury or even cause death.

**INGESTION:** When cutting dust exposure may cause effects such as depression, eye and nasal discharge, stomach and intestinal irritation, and diarrhea.

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## SECTION 8. PREVENTIVE MEASURES

<b>PERSONAL PROTECTIVE EQUIPMENT TO BE USED:</b>	When cutting, the use of eye protection and a NIOSH-approved respirator for dust is recommended.
<b>ENGINEERING CONTROLS TO BE USED:</b>	Ventilate adequately when cutting.
<b>WASTE DISPOSAL:</b>	Handle in accordance with federal, state, provincial and municipal regulations.
<b>PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL:</b>	Pipe fragments and debris should be swept up and removed to a disposal container.
<b>HANDLING PROCEDURES AND EQUIPMENT:</b>	Avoid generating dust, fumes or vapours. Ensure well-ventilated conditions by methods such as local mechanical exhaust ventilation, as necessary, during cutting. Avoid continued, prolonged, and/or repeated breathing of fumes or vapours. Do not inhale, ingest, taste, swallow, or chew this product.
<b>STORAGE REQUIREMENTS:</b>	None
<b>SPECIAL SHIPPING INFORMATION:</b>	Not applicable

## SECTION 9. EMERGENCY AND FIRST AID MEASURES

<b>SPECIFIC FIRST AID MEASURES:</b>	No situation is likely to arise from routine handling or CPVC pipes.
<b>EYES:</b>	Remove particles with clean water. If irritation persists, consult a physician.
<b>SKIN:</b>	Wash with soap and water
<b>INGESTION:</b>	Do not induce vomiting: consult a physician.
<b>INHALATION:</b>	If irritation persists, consult a physician

## SECTION 10. ADDITIONAL GENERAL INFORMATION

### Disclaimer

The information contained in this material safety data sheet is based on information available to IPEX Inc. and is believed to be accurate. Where this information is based on data developed by third parties, IPEX Inc. expressly denies liability. IPEX Inc. makes no warranty, expressed or implied, regarding the accuracy of this information or data or the results obtained from its use. All recommendations are made without guarantee, since the conditions of use of this product are beyond IPEX Inc.'s control. IPEX Inc. assumes no responsibility for any damages resulting from the use of this product described herein.

Please consult IPEX Inc. for further information.

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