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**SECTION 1: PRODUCT IDENTIFICATION**

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**Product Name:** Zeston® PVC Pipe Covers & Jacketing  
**Generic Name:** PVC Pipe Covers and Jacketing  
**Chemical Name:** Mixture

**Manufacturer:** Johns Manville  
 Insulations Group  
**Address:** P. O. Box 5108  
 Denver, CO USA 80217-5108

**CAS#:** Mixture/None Assigned  
**Formula:** Mixture  
**Hazard Label:** None Required  
**Telephone:** 303-978-2000  
**Emergency:** 800-424-9300  
**Internet Address:** <http://www.jm.com>

**Trade Names:**

Zeston® 300 Series PVC Fitting Covers and Jacketing; Zeston® 2000 Series PVC Fitting Covers and Jacketing; Z-Tape

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**SECTION 2: INGREDIENTS**

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Ingredient Name	CAS #	%	Exposure Limit(s)
<p>As defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200), the products listed above are articles in that their end uses are dependant upon their manufactured shape and design, and they will not release, or otherwise result in exposure to hazardous chemicals under normal conditions of use.</p>			

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**SECTION 3: HAZARD IDENTIFICATION**

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**EMERGENCY OVERVIEW**

**APPEARANCE AND ODOR:** Pre-formed, molded plastic sheets and shapes of varying colors; no odor.

**Under normal conditions of use, this product is not expected to create any unusual emergency hazards.**

**In the event of fire, use normal fire fighting procedures to prevent inhalation of smoke and gases.**

**Potential Health Effects**

**Summary:**

The products listed above will not release or otherwise result in exposure to hazardous chemicals that could cause adverse health effects.

**Acute (Short-Term) Health Effects:**

Not applicable.

**Chronic (Long-Term) Health Effects:**

Not applicable.

**Target Organs:**

None.

**Primary Routes of Entry (Exposure):**

None.

**Medical Conditions Which May Be Aggravated:**

None known.

### Symptoms Of Overexposure

**Inhalation:**

Not applicable.

**Skin:**

Not applicable.

**Absorption:**

Not applicable.

**Ingestion:**

Product is not intended to be ingested or eaten under normal conditions of use. If this product is ingested, it may cause temporary irritation to the gastrointestinal (GI) tract, especially the stomach.

**Eye:**

Not applicable.

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### **SECTION 4: FIRST AID MEASURES**

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**Inhalation:**

Not applicable.

**Skin:**

Not applicable.

**Absorption:**

Not applicable.

**Ingestion:**

Product is not intended to be ingested or eaten. If this product is ingested, irritation of the gastrointestinal (GI) tract may occur, and should be treated symptomatically. No chronic effects are expected following ingestion.

**Eye:**

Not applicable.

**Notes to Physician:**

None.

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### **SECTION 5: FIRE FIGHTING MEASURES**

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**Summary:**

No special procedures are expected to be necessary for this product. Normal fire fighting procedures should be followed to avoid inhalation of smoke and gases.

**Unusual Fire/Explosion Hazards:**

There is no potential for fire or explosion.

**Flammable Properties and Explosive Limits:**

**Flash Point:** Not applicable  
**FP Test Method:** Not applicable  
**Flame Classification:** Not determined  
**Flame Propagation:** Not determined

**Lower Explosive Limit (LEL):** Not applicable  
**Upper Explosive Limit (UEL):** Not applicable  
**Autoignition Temperature:** Not determined  
**Decomposition Temperature:** Not determined

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### **SECTION 6: ACCIDENTAL SPILL/RELEASE MEASURES**

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**Containment Procedures:**

Pick up large pieces.

**Disposal:**

Wastes are not hazardous as defined by the Resource Conservation and Recovery Act (RCRA; 40 CFR 261). Comply with state and local regulations for disposal of solid wastes. If you are unsure of the regulations, contact your local Public Health Department, or local office of the Environmental Protection Agency (EPA).

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### **SECTION 7: HANDLING AND STORAGE**

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**Storage Handling:**

No special precautions are required.

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## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

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### Summary:

No special protective measures are necessary for use of this product in that it is an article, and under normal conditions of use is not expected to release, or otherwise result in exposure to a hazardous chemical.

### Eye:

Not required.

### Skin:

Not required.

### Respiratory:

Not required.

### Ventilation:

No special ventilation systems are required under conditions of use. The need for ventilation systems should be evaluated by a professional industrial hygienist, while the design of specific ventilation systems should be conducted by a professional engineer.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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<b>Boiling Point (°F/°C):</b>	Not determined
<b>Evaporation Rate (Butyl acetate = 1) :</b>	Not applicable
<b>Melting Point:</b>	Not determined
<b>pH:</b>	Not applicable
<b>Saturation in Air (%):</b>	Not applicable
<b>Solids Content:</b>	Not applicable
<b>Specific Gravity (Water = 1):</b>	Variable
<b>Vapor Density (Air = 1):</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable
<b>Viscosity:</b>	Not applicable
<b>VOCs (g/liter):</b>	Not applicable
<b>Volatile by Volume (%):</b>	0
<b>Water Solubility (%):</b>	Nil

### Appearance and Odor:

Pre-formed, molded plastic sheets and shapes of varying colors; no odor.

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## SECTION 10: STABILITY AND REACTIVITY

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**Product is stable.**

**Hazardous polymerization will not occur.**

### Reactivity:

This product is not reactive.

### Hazardous Decomposition Products:

The decomposition and pyrolysis products from this material may include hydrogen chloride, carbon monoxide, and other trace organic compounds.

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## SECTION 11: TOXICOLOGICAL AND EPIDEMIOLOGICAL DATA

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This product has not been tested as a separate entity. Therefore, the hazards must be evaluated on the basis of the individual ingredients, and those hazards must be assumed to be additive in the absence of complete information. The hazards described in this document have been evaluated based on a threshold of 1.0% for all hazardous ingredients and 0.1% for all carcinogens.

### Acute Effects:

Because it will not release, or otherwise result in exposure to a hazardous chemical under normal conditions of use, this product is not expected to cause any acute toxicological effects.

### Toxicity (LD<sub>50</sub>):

The LD<sub>50</sub> and LC<sub>50</sub> (dose or concentration lethal to 50% of a population of test animals) for this product have not been determined.

### Chronic Effects:

None known.

**References:**

Clayton, G.D., and F.E. Clayton, eds., "Pattys Industrial Hygiene and Toxicology, Third Revised Edition: Volume 2 - Toxicology," John Wiley and Sons, New York, 1981.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**Ecotoxicity:**

This product has not been tested.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**Summary:**

This product is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal of solid wastes. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the EPA.

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**SECTION 14: TRANSPORT INFORMATION**

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**Transportation Summary:**

This product is not regulated as a hazardous material for transport.

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**SECTION 15: REGULATORY INFORMATION**

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**U. S. REGULATIONS**

**Federal Regulations:**

The Occupational Safety and Health Administration (OSHA), National Toxicology Program (NTP), International Agency for Research on Cancer (IARC), and American Conference of Governmental Industrial Hygienists (ACGIH) have not classified this product as a carcinogen.

**Environmental Regulations:**

There are no components in this product regulated by the Environmental Protection Agency (EPA) under the Superfund Amendments and Reauthorization Act (SARA Title III); the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), or the Toxic Substance Control Act (TSCA).

**Toxic Substances Control Act Inventory (TSCA 8(b)):**

This product and its components are listed.

**INTERNATIONAL REGULATIONS**

**Canada Environmental Protection Act Domestic Substance List (Section 25(1) DSL):**

This product and its components are listed.

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**SECTION 16: OTHER INFORMATION**

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For additional information concerning this product, contact the Johns Manville Product Information Center at PO Box 5108, Denver, CO USA 80217-5108, or call toll-free 800-654-3103 within the US or Canada. Otherwise, call 303-978-4900 collect.

**MSDS Revision Summary:**

<b>Date</b>	<b>MSDS #</b>	<b>Reason</b>
01/01/92	2001-1.0	Format revision
04/15/92	2001-2.0	Preparer/Manufacturer name change
09/15/92	2001-3.0	Sects. 1 & 11: Added Z-Tape to Trade Name; Manufacturer name change
12/31/92	2001-3.1	Sect. 11, Revision
06/15/93	2001-3.2	Sect. 11: Editorial changes
02/28/94	2001-3.3	Trade Names: Added PVC Drain Pans
05/01/95	2001-3.4	Conversion to ANSI 16 section format.
05/15/96	2001-3.5	Header: replaced logo with current standard and reformatted layout.
02/03/98	2001-3.6	Company name change.
09/22/98	2001-3.7	Section 1: Trade names, removed Ceel-Co® Fittings and Covers; PVC Drain Pans and transferred to MSDS 2117.

**Prepared for:**

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— END OF MSDS 2001-3.7 —

