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## MATERIAL SAFETY DATA SHEET

SECTION I	GENERAL INFORMATION		
A.	<b>Material Name:</b> <u>PVC Plastic Fittings / Valves</u>		
	<b>Other Names:</b> <u>Vinyl fittings</u>	<b>Chemical Family:</b> <u>Polyvinyl chloride</u>	
B.	<b>Manufacturer:</b> NIBCO INC. 1516 Middlebury St. P.O. Box 1167 Elkhart, IN 46516	Telephone: 219-295-3000 For chemical emergency - spill, leak, fire exposure or accident, call: CHEMTEL 1-800-255-3924 day or night	

SECTION II		Composition / Information on Ingredients			
Ingredient	CAS #	Weight %	ACGIH TLV	OSHA PEL	
Organic Tin Compound	7440-31-5	3	0.1 mg/m <sup>3</sup> -skin; (C) 0.2 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup> - skin	
Polyvinyl Chloride Resin	9002-86-2	100	none established	none established	
Vinyl Chloride Monomer	75-01-4	<.0002	5 ppm ACGIH TLV TWA	2.56 mg/m <sup>3</sup>	

KNOWN HAZARDS UNDER 29 CFR 1910.1200											
	Yes	No		Yes	No		Yes	No		Yes	No
Combustible Liquid		x	Skin Hazard		x	Oxidizer		x	Reproductive Toxin		x
Flammable Material		x	Eye Hazard		x	Organic Peroxide		x	Blood Toxin		x
Pyrophoric Material		x	Toxic Agent		x	Corrosive Material		x	Nervous Sys. Toxin		x
Explosive Material		x	Highly Toxic Agent		x	Compressed Gas		x	Lung Toxin		x
Unstable Material		x	Sensitizer		x	Irritant		x	Liver Toxin		x
Water Reactive Mat.		x	Carcinogen		x				Kidney Toxin		x

**Comments:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**SECTION II Composition / Information on Ingredients (CONTINUED)**

SHIPPING INFORMATION	SPECIAL HAZARD DESIGNATIONS			
DOT HAZARD CLASS: N/A		HMIS	NFPA	HAZARD RATING
DOT SHIPPING NAME: N/A	HEALTH;	0	0	0 - MINIMAL
	FLAMMABILITY:	0	0	1 - SLIGHT
	REACTIVITY:	0	0	2 - MODERATE
	PROTECTIVE EQUIPMENT:	-	-	3 - SERIOUS
SHIPPING I.D. NUMBER: N/A				4 - SEVERE

**SECTION III PHYSICAL DATA**

Melting Point: 200 °F Vapor Pressure (mm Hg): NA

Boiling Point: NA Vapor Density (AIR=1): NA

Specific Gravity (H<sub>2</sub>O=1): 1.42 Solubility in Water: Insoluble

Appearance and Odor: white/gray and odorless solid

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

Flash Point (method used): 735 °F

LEL: N/A UEL: N/A

Extinguishing Media: Water spray, ABC dry chemical, carbon dioxide

**Special Fire fighting Procedures:** Fire fighters should be equipped for protection against high heat, depletion of oxygen, heavy smoke and molten plastic.

**Unusual Fire and Explosion Hazards:** Under burning conditions, PVC will release hydrogen chloride, carbon monoxide and carbon dioxide. Other gases released in small quantities are: benzene and aromatic and aliphatic hydrocarbons. The combustion products of PVC like those from other natural and synthetic products must be considered toxic.

**SECTION V REACTIVITY DATA**

A. **Stability:**  Stable  Unstable

Conditions to Avoid: N/A

B. **Hazardous Polymerization:**  May Occur  Will Not Occur

Conditions to Avoid: N/A

C. **Incompatible Materials:** None known

D. **Hazardous Decomposition Products:** Hydrogen chloride, carbon monoxide, carbon dioxide and small amounts of benzene and aromatic and aliphatic hydrocarbons.

**SECTION VI****HEALTH HAZARD DATA**

**Route(s) of Entry:**       Inhalation       Ingestion       Skin

**Health Hazards (Acute and Chronic):**

The fittings as received do not present an inhalation, skin contact or eye contact hazard. Listed hazards may result from remelting or combustion of the fittings.

A.    **Metals:**

**Organic Tin Compound:** Organic tin compounds can affect the body if they are inhaled or if they come in contact with the eyes or skin. Organic tin compounds are primary skin irritants capable of penetrating intact skin, and can cause skin lesions on repeated contact.

B.    **Other Constituents:**

**Polyvinyl Chloride:** Chronic inhalation of PVC dust has been reported to cause pulmonary damage, blood effects and abnormal liver function. Repeated skin contact can cause allergic dermatitis.

C.    **Carcinogenicity:**       NTP       IARC       OSHA

None of the constituents show carcinogenicity.

D.    **Emergency First Aid:**

Not applicable to finished fittings.

**SECTION VII SPILL OR LEAK PROCEDURES**

- A. **Special Handling or Storage:**  
Store fittings away from weather and sources of heat.
- B. **Spill or Leak Containment:**  
For spills of broken fittings, sweep from floor for stable footing and to prevent slips by personnel.
- C. **Waste Disposal:**  
Dispose of waste in a licensed landfill or incinerate in accordance with federal, state and local regulations.
- D. **Other Precautions:**  
None.

**SECTION VIII SPECIAL PROTECTION INFORMATION**

- A. **Respiratory Protection (specify type):** NIOSH approved for organic vapor when solvent welding in poorly ventilated areas.
- B. **Ventilation:**             Local Exhaust                       Mechanical (General)  
**Other (specify):** N/A
- C. **Eye Protection:**         Yes             No            Type: glasses or goggles when solvent welding
- D. **Protective Gloves:**     Yes             No            Type: rubber or PVA coated when solvent welding
- E. **Other Protective Equipment or Clothing:**         Yes             No  
**Type:** N/A
- F. **Special Precautions or Work Practices:** N/A

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