# MATERIAL SAFETY DATA SHEET

## SECTION I  GENERAL INFORMATION

### A. **Material Name:** PVC Plastic Fittings / Valves

**Other Names:** Vinyl fittings  
**Chemical Family:** Polyvinyl chloride

### B. **Manufacturer:** NIBCO INC.  
**Telephone:** 219-295-3000  
1516 Middlebury St.  
P.O. Box 1167  
Elkhart, IN 46516  
For chemical emergency - spill, leak, fire exposure or accident, call:  
CHEMTEL 1-800-255-3924 day or night

## SECTION II  Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Weight %</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic Tin Compound</td>
<td>7440-31-5</td>
<td>3</td>
<td>0.1 mg/m³-skin; (C) 0.2 mg/m³</td>
<td>0.1 mg/m³ - skin</td>
</tr>
<tr>
<td>Polyvinyl Chloride Resin</td>
<td>9002-86-2</td>
<td>100</td>
<td>none established</td>
<td>none established</td>
</tr>
<tr>
<td>Vinyl Chloride Monomer</td>
<td>75-01-4</td>
<td>&lt;.0002</td>
<td>5 ppm ACGIH TLV TWA</td>
<td>2.56 mg/m³</td>
</tr>
</tbody>
</table>

## KNOWN HAZARDS UNDER 29 CFR 1910.1200

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th></th>
<th>Yes</th>
<th>No</th>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combustible Liquid</td>
<td>x</td>
<td></td>
<td>Skin Hazard</td>
<td>x</td>
<td></td>
<td>Oxidizer</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Flammable Material</td>
<td>x</td>
<td></td>
<td>Eye Hazard</td>
<td>x</td>
<td></td>
<td>Organic Peroxide</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Pyrophoric Material</td>
<td>x</td>
<td></td>
<td>Toxic Agent</td>
<td>x</td>
<td></td>
<td>Corrosive Material</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Explosive Material</td>
<td>x</td>
<td></td>
<td>Highly Toxic Agent</td>
<td>x</td>
<td></td>
<td>Compressed Gas</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Unstable Material</td>
<td>x</td>
<td></td>
<td>Sensitizer</td>
<td>x</td>
<td></td>
<td>Irritant</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Water Reactive Mat.</td>
<td>x</td>
<td></td>
<td>Carcinogen</td>
<td>x</td>
<td></td>
<td>Kidney Toxin</td>
<td>x</td>
<td></td>
</tr>
</tbody>
</table>

**Comments:**

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

SHIPPING INFORMATION

DOT HAZARD CLASS: N/A
DOT SHIPPING NAME: N/A
SHIPPING I.D. NUMBER: N/A

SPECIAL HAZARD DESIGNATIONS

<table>
<thead>
<tr>
<th>HMIS</th>
<th>NFPA</th>
<th>HAZARD RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH:</td>
<td>0 0 0</td>
<td>0 - MINIMAL</td>
</tr>
<tr>
<td>FLAMMABILITY:</td>
<td>0 0</td>
<td>1 - SLIGHT</td>
</tr>
<tr>
<td>REACTIVITY:</td>
<td>0 0</td>
<td>2 - MODERATE</td>
</tr>
<tr>
<td>PROTECTIVE EQUIPMENT:</td>
<td>- -</td>
<td>3 - SERIOUS</td>
</tr>
</tbody>
</table>

SECTION III  PHYSICAL DATA

- Melting Point: 200 °F
- Vapor Pressure (mm Hg): NA
- Boiling Point: NA
- Vapor Density (AIR=1): NA
- Specific Gravity (H₂O=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): 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 rubber or PVA coated

D. Protective Gloves:
☒ Yes  ☐ No  Type: 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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