MATERIAL SAFETY DATA SHEET

SECTION I GENERAL INFORMATION

A. Material Name: ABS Plastic Fittings / Valves / Pipe

Other Names: Styrene Copolymer Chemical Family: Grafted Copolymer

B. Manufacturer: NIBCO INC. Telephone: 219-295-3000
1516 Middlebury St. For chemical emergency - spill, leak,
P.O. Box 1167 fire exposure or accident, call:
Elkhart, IN 46516 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>Acrylonitrile / Butadiene/ Styrene Resin (ABS Resin)</td>
<td>9003-56-9</td>
<td>90 - 100</td>
<td>none established</td>
<td>none established</td>
</tr>
<tr>
<td>Mineral Oil</td>
<td>8042-47-5</td>
<td>0 - 2</td>
<td>none established</td>
<td>none established</td>
</tr>
<tr>
<td>Tallow</td>
<td>8030-12-4</td>
<td>0 - 2</td>
<td>none established</td>
<td>none established</td>
</tr>
<tr>
<td>Wax</td>
<td>110-30-5</td>
<td>0 - 2</td>
<td>none established</td>
<td>none established</td>
</tr>
</tbody>
</table>

KNOWN HAZARDS UNDER 29 CFR 1910.1200

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

Comments: <1% pigment added to base ABS material for color; not reportable under 1910.1200
SECTION II Composition / Information on Ingredients (CONTINUED)

<table>
<thead>
<tr>
<th>SHIPPI NG INFORMATION</th>
<th>SPECIAL HAZARD DESIGNATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT HAZARD CLASS: N/A</td>
<td>HEALTH: HMIS</td>
</tr>
<tr>
<td>DOT SHIPPI NG NAME: N/A</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>FLAMMABILITY:</td>
</tr>
<tr>
<td></td>
<td>REACTIVITY:</td>
</tr>
<tr>
<td></td>
<td>PROTECTIVE EQUIPMENT:</td>
</tr>
<tr>
<td>SHIPPING I.D. NUMBER: N/A</td>
<td>4 - SEVERE</td>
</tr>
</tbody>
</table>

SECTION III PHYSICAL DATA

Melting Point: N/A, softening @ 194 °F

Boiling Point: N/A

Specific Gravity (H₂O=1): 1.05

Solubility in Water: Insoluble

Appearance and Odor: Color: Opaque, Black, Off White or Green; odorless solid

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (method used): 730 - 752 °F

LEL: N/A

UEL: N/A

Extinguishing Media: Water spray, ABC dry chemical, foam, 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, ABS will release acrylonitrile, butadiene, styrene, hydrocarbon fragments, hydrogen cyanide, carbon monoxide and carbon dioxide. The combustion products of ABS 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 cyanide, carbon monoxide, carbon dioxide and small amounts of acrylonitrile, butadiene, and styrene.
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 cutting or sanding of the fittings.

A. Metals:

B. Other Constituents:

Acrylonitrile butadiene styrene copolymer: ABS dust should be considered as a nuisance dust with a potential to cause irritation of the mucous membranes of the respiratory tract by mechanical insult. Direct skin contact with the dust does not produce skin irritation.

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 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: when solvent welding
Glasses or goggles

D. Protective Gloves:
☒ Yes ☐ No Type: when solvent welding
Srubber or PVA coated

E. Other Protective Equipment or Clothing:
☐ Yes ☒ No

Type: N/A

F. Special Precautions or Work Practices: N/A

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