

MSDS No.: FP-16

Date: 6/1/95

Revisions: 11/12/01



MATERIAL SAFETY DATA SHEET

SECTION I

GENERAL INFORMATION

A. **Material Name:** Glass Bead Reinforced Polypropylene Plastic Fittings / Valves

Other Names: Polypropylene Homopolymer **Chemical Family:** Olefin Polymers

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

Ingredient	CAS #	Weight %	ACGIH TLV	OSHA PEL
polypropylene	25085-53-4	65 - 75	none established	none established
antioxidants	6683-19-8,			
	31570-04-4	0 - 1	none established	none established
lubricant	1592-23-0	0 - 1	none established	none established
carbon black color concentrate	1333-86-4	0 - 5	3.5 mg/M ³	3.5 mg/M ³
glass bead	65997-17-3	25 - 35	none established	none established

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.			Carcinogen		x				Kidney Toxin		x

Comments: carbon black pigment added to base PP material for colored products

SECTION II Composition / Information on Ingredients (CONTINUED)				
SHIPPING INFORMATION		SPECIAL HAZARD DESIGNATIONS		
DOT HAZARD CLASS:		HMIS	NFPA	HAZARD RATING
DOT SHIPPING NAME:	HEALTH:	0	0	0 - MINIMAL
	FLAMMABILITY:	1	1	1 - SLIGHT
	REACTIVITY:	0	0	2 - MODERATE
	PROTECTIVE EQUIPMENT:	A		3 - SERIOUS
SHIPPING I.D. NUMBER:				4 - SEVERE

SECTION III PHYSICAL DATA	
Melting Point: <u>320 - 338 °F (softening)</u>	Vapor Pressure (mm Hg): <u>N/A</u>
Boiling Point: <u>N/A</u>	Vapor Density (AIR=1): <u>N/A</u>
Specific Gravity (H ₂ O=1): <u>1.13</u>	Solubility in Water: <u>Insoluble</u>
Appearance and Odor: <u>essentially odorless solid</u>	

SECTION IV FIRE AND EXPLOSION HAZARD DATA	
Flash Point (method used): <u>690 °F</u>	
LEL: <u>N/A</u>	UEL: <u>N/A</u>
Extinguishing Media: <u>water fog, foam, ABC dry chemical, carbon dioxide</u>	
Special Fire fighting Procedures: Material will not burn unless pre-heated. Cool fire exposed containers with water. In the event of fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face piece, operated in the positive pressure mode	
Unusual Fire and Explosion Hazards: Treat as a solid that can burn. Molded parts generally burn slowly with a low smoke density and flaming drips. Under certain conditions can burn with a high smoke density.	

SECTION V REACTIVITY DATA	
A. Stability:	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
Conditions to Avoid: <u>strong oxidizers</u>	
B. Hazardous Polymerization:	<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur
Conditions to Avoid: _____	
C. Incompatible Materials:	none
D. Hazardous Decomposition Products:	methane, propane, carbon monoxide, carbon dioxide, acrolein, acids, ketones aldehydes.

SECTION VI**HEALTH HAZARD DATA**

Route(s) of Entry: Inhalation Ingestion Skin

Health Hazards (Acute and Chronic):

A. **Metals:**

none present

B. **Other Constituents:**

Polypropylene Copolymer: Mechanical irritation of the skin is the primary occupational exposure to polypropylene resin. Occupational exposure has not been reported to cause significant health affects. Due to its chemical and physical properties, it does not appear to possess any toxicological properties which would require special handling other than good industrial hygiene and safety practices.

Carbon Black: Mildly toxic by ingestion, inhalation and skin contact. In the finished products, it is bound into the structure of the polymer resin and cannot be released by itself.

Antioxidant: no data available

Lubricant: no data available

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:**
Keep dry and away from strong bases
- 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 dust/fume or organic
cartridge respirator, as appropriate _____
- B. **Ventilation:** Local Exhaust Mechanical (General)
Other (specify): N/A _____
- C. **Eye Protection:** Yes No Type: N/A _____
- D. **Protective Gloves:** Yes No Type: N/A _____
- E. **Other Protective Equipment or Clothing:** Yes No
Type: N/A _____
- F. **Special Precautions or Work Practices:** None

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

PRODUCT NAME Glass Bead
Reinforced Polypropylene Fittings & Valves

MSDS No: FP-16
Refer to Material Safety Data Sheet for more information



NIBCO INC.
1516 Middlebury St.
P.O. BOX 1167
ELKHART, IN 46516
219-295-3000

NFPA RATING AS SHIPPED

<p>HEALTH HAZARD</p> <p>4. EXTREME HAZARD - AVOID CONTACT OR BREATHING VAPOR</p> <p>3. SEVERE HAZARD - USE SPECIAL CLOTHING AND MASKS</p> <p>2. HAZARDOUS - USE MASKS OR SPECIAL VENTILATION</p> <p>1. SLIGHTLY HAZARDOUS - IRRITATING</p> <p>0. NORMAL MATERIAL</p>	<p style="text-align: center;">FIRE HAZARD</p> <p style="text-align: center;">4. EXTREMELY DANGEROUS AND EXPLOSION HAZARD</p> <p style="text-align: center;">3. FIRE AND EXPLOSION HAZARD</p> <p style="text-align: center;">2. WILL BURN AT TEMPS ABOVE 100 °F</p> <p style="text-align: center;">1. WILL BURN AT TEMPS ABOVE 200 °F</p> <p style="text-align: center;">0. WILL NOT BURN</p> <div style="text-align: center; margin: 10px 0;"> <p>(RED)</p> <p>0</p> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>(BLUE)</p> <p>0</p> </div> <div style="text-align: center;"> <p>(YELLOW)</p> <p>0</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>W</p> <p>USE NO WATER</p> </div> <div style="text-align: center;"> <p>P</p> <p>POLYMERIZES</p> </div> </div>	<p>REACTIVITY HAZARD</p> <p>4. EXTREME HAZARD - VACATE AREA IN CASE OF FIRE</p> <p>3. SEVERE EXPLOSION HAZARD</p> <p>2. VIOLENT CHEMICAL CHANGE POSSIBLE</p> <p>1. UNSTABLE IF HEATED</p> <p>0. NORMALLY STABLE</p>
<p>CAUTION!</p> <p>Cutting or remelting of this product may generate toxic fumes or dust. Refer to MSDS and health hazards and target organ effects listed below.</p>		

<p style="text-align: center;">INGREDIENTS</p> <p>Polypropylene polymer, carbon black pigment, antioxidant, lubricant, glass bead</p>	<p style="text-align: center;">STORAGE AND HANDLING</p> <p>Store away from excessive heat and open flame</p>
<p>SARA SECT. 313 NOTIFICATION</p>	

<input type="checkbox"/> TOXIC <input type="checkbox"/> HIGHLY TOXIC <input type="checkbox"/> REPRODUCTIVE TOXIC	<p style="text-align: center;">HEALTH HAZARDS</p> <input type="checkbox"/> IRRITANT <input type="checkbox"/> CORROSIVE <input type="checkbox"/> SENSITIZER	<input type="checkbox"/> CARCINOGEN <input type="checkbox"/> _____ <input checked="" type="checkbox"/> NO KNOWN EFFECTS
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<p>IMMEDIATE AND DELAYED HEALTH EFFECTS</p>		
<input type="checkbox"/> HEPATOXINS (LIVER DAMAGE) - jaundice, liver enlargement <input type="checkbox"/> NEPHROTOXINS (KIDNEY DAMAGE) - edema, proteinuria <input type="checkbox"/> NEUROTOXINS (NERVOUS SYSTEM DAMAGE) - narcosis, behavioral changes, decrease in motor functions	<input type="checkbox"/> HEMATOPOIETICS (BLOOD DAMAGE) - cyanosis, unconsciousness <input type="checkbox"/> PULMONARY DYSFUNCTIONS (Lung Damage) - shortness of breath, chest tightness, cough <input type="checkbox"/> REPRODUCTIVE TOXINS - birth defects, sterility	<input type="checkbox"/> CUTANEOUS HAZARDS - skin damage, rashes, irritation, defatting of skin <input type="checkbox"/> EYE HAZARDS - impaired vision, conjunctivitis, corneal damage <input checked="" type="checkbox"/> NONE - no known immediate or delayed effects