MERIT BRASS FOR NOW AND THE FUTURE...

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTITY: Stainless Steel Ball Valves **MSDS #:** 007

SECTION I

MANUFACTURE'S NAME: Various
DISTRIBUTOR: Merit Brass Co.
ADDRESS:
One Merit Drive - P.O. Box 43127
Cleveland, Ohio 44143

EMERGENCY TELEPHONE NUMBER:
1-216-261-9800 or 1-800-726-9800
TELEPHONE NUMBER FOR INFORMATION:
1-216-261-9800 or 1-800-726-9800

CHEMICAL NAME AND SYNONYMS:
Stainless Steel Alloys; Type 304, Type 316, and ASTM A351. Teflon and Reinforced Teflon.

COMPANY CONTACT:
Thomas J. Golenski, Plant Superintendent

SECTION II - HAZARDOUS INGREDIENTS

ELEMENT	CAS NO.	% RANGE	OSHA PEL (mg/M^3)	ACGIH TLV (mg/M^3)
Iron	7439-89-6	65 - 68.5	10 dust	5 dust
Chromium	7440-66-6	17.5 - 19	0.5	0.5 dust/fume
Nickel	7440-02-0	9 - 12.5	2	2
Molybdenum	7439-98-7	0 - 2.5	5 respirable dust, 10 total dust	10 dust
Manganese	7439-96-5	1.75 - 2	1	5
Cobalt	7440-48-4	0.2 - 0.75	0.05 dust/fume	0.05 dust/fume

Teflon *

Reinforced Teflon *

* Food grade plastic material.

SECTION III - PHYSICAL DATA

MELTING POINT: 2400 to 2800° F
SPECIFIC GRAVITY: 7.5 to 8.5 g/cc
BOILING POINT: Not Applicable
VAPOR PRESSURE: Not Applicable

Stainless Steel is a shiny silver-gray colored metallic solid, it has no odor, and is not soluable in water.

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT: Not Applicable
EXTINGUISHING MEDIA: Water spray or ABC dry chemical
AUTO-IGNITION TEMPERTURE: Not Applicable
NATIONAL FIRE PROTECTION ASSOCIATION DATA:
Health - 1 Flammability - 0
FLAMMABLE LIMITS: LEL N/A UEL N/A
Reactivity - 0 Special - None
SPECIAL FIRE FIGHTING PROCEDURES:
None when solid.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Do not use water on molten metal.

SECTION V - HEALTH HAZARD DATA

Stainless Steel Ball Valves

THRESHHOLD LIMIT VALUE: See SECTION II - HAZARDOUS INGREDIENTS

EFFECTS OF OVEREXPOSURE: No adverse health effects when handling intact parts.

Exposure to stainless steel grinding dust and welding fumes may cause siderosis (spots on lungs) and severe respiratory tract irritation due to the effect of chromium, nickel, and other toxic alloy metals.

EMERGENCY AND FIRST AID PROCEDURES: In all cases seek medical assistance.

INHALATION - Remove person with symptoms to fresh air, thoroughly shower, and change cloths.

INGESTION - Seek medical assistance.

EYE - Flush with clean water for thirty minutes.

SKIN - Wash thoroughly with soap and water.

SECTION VI - REACTIVITY DATA

STABILITY: Stainless Steel metal is stable at room temperture.

INCOMPATABILITY: (Materials to avoid) None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Stainless Steel parts spills should constitute only a trip and fall hazard.

WASTE DISPOSAL METHOD:

Stainless Steel is valuable and may be recycled by foundries and secondary metal smelters.

Avoid melting stainless steel chips covered with metal cutting oil since this will cause fugative emmissions of dense smoke into the air.

Teflon parts may be disposed of in a sanitary land fill or recycled as teflon plastic filler.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: (Specify Type) Use a NIOSH approved welding respirator when melting, welding, or grinding stainless steel

VENTILATION: Local exhaust ventilation is recommended when melting, welding, or grinding stainless steel.

EYE PROTECTION: Wear appropriate eye protection when melting, welding, cutting, or grinding stainless steel.

PROTECTIVE GLOVES: Use proper gloves when welding. Use cut resistant gloves when handling metal chips.

OTHER PROTECTIVE EQUIPMENT: Wear clothing appropriate to the fabrication operation attempted with this product.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Protect stainless steel parts from moisture and iron to avoid dicoloration and contamination.

OTHER PRECAUTIONS: Never place wet stainless steel parts into a melting furnace - explosion hazard.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warrantee or guarentee is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy themself as to the suitability or completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this product either singly or in combination with other substances. This MSDS is equivalent to OSHA Form 20.

MSDS prepared by: S.R. Pressman, Industrial Hygienist (5/90) Aniline Environmental