



MATERIAL SAFETY DATA SHEET

PRODUCT IDENTITY: Brass Pipe Fittings **MSDS #:** 001

SECTION I

MANUFACTURE'S NAME: Various	EMERGENCY TELEPHONE NUMBER: 1-216-261-9800 or 1-800-726-9800
DISTRIBUTOR: Merit Brass Co.	TELEPHONE NUMBER FOR INFORMATION: 1-216-261-9800 or 1-800-726-9800
ADDRESS: One Merit Drive - P.O. Box 43127 Cleveland, Ohio 44143	COMPANY CONTACT: Thomas J. Golenski, Plant Superintendent
CHEMICAL NAME AND SYNONYMS: Brass Alloys; CDA 37700, CDA 36000, CDA 84400, ASTM-B62, and ASTM B-584	

SECTION II - HAZARDOUS INGREDIENTS

ELEMENT	CAS NO.	% RANGE	OSHA PEL (mg/M ³)	ACGIH TLV (mg/M ³)
Copper	7440-50-8	55 - 92.2	0.1 fume, 1 dust	0.2 fume, 1 dust
Zinc	7440-66-6	0.5 - 43	5 respirable dust, 15 total dust	5 respirable dust, 10 total dust
Aluminum	7429-90-5	0 - 7	5 respirable dust, 15 total dust	5 respirable dust, 10 total dust
Iron	7439-89-6	0.1 - 0.5	10 dust	5 dust
Lead	7439-92-1	0.05 - 3.7	0.05	0.15
Manganese	7439-96-5	0 - 3.5	1	5
Nickel	7440-02-0	0 - 0.25	2	2
Silicon	7440-21-3	0 - 2.2	5 respirable dust, 10 total dust	10
Tin	7440-31-5	0 - 1	2	2

SECTION III - PHYSICAL DATA

MELTING POINT: 1500 to 2100° F SPECIFIC GRAVITY: 7.5 to 9.0 g/cc
 BOILING POINT: Not Applicable VAPOR PRESSURE: Not Applicable
 Brass is a shiny yellow-golden colored metallic solid, it has no odor, and is not soluble in water.

SECTION IV - FIRE & EXPLOSION DATA

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

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SECTION V - HEALTH HAZARD DATA	Brass Pipe Fittings
<p>THRESHOLD LIMIT VALUE: See SECTION II - HAZARDOUS INGREDIENTS</p> <p>EFFECTS OF OVEREXPOSURE: No adverse health effects when handling intact parts; wash hands before eating to prevent ingestion of minute amounts of toxic metal that may accumulate in the body.</p> <p>Exposure to brass grinding dust and brazing fumes may cause the cold-like symptoms of metal fume fever; metallic taste in mouth, chills, fever, dry mouth and throat, headache. Brass fumes may cause the discoloration of skin and hair.</p> <p>EMERGENCY AND FIRST AID PROCEDURES: In all cases seek medical assistance.</p> <p>INHALATION - Remove person with symptoms to fresh air, thoroughly shower, and change cloths.</p> <p>INGESTION - Seek medical assistance.</p> <p>EYE - Flush with clean water for thirty minutes.</p> <p>SKIN - Wash thoroughly with soap and water.</p>	
SECTION VI - REACTIVITY DATA	
<p>STABILITY: Brass metal is stable at room temperature.</p> <p>INCOMPATIBILITY: (Materials to avoid) Strong acids and bases.</p> <p>HAZARDOUS DECOMPOSITION PRODUCTS: Flammable or toxic gases may evolve when brass is exposed to acids or bases.</p> <p>HAZARDOUS POLYMERIZATION: Will not occur.</p> <p>CONDITIONS TO AVOID: Do not use brass pipe and fittings to transport corrosive liquids.</p>	
SECTION VII - SPILL OR LEAK PROCEDURES	
<p>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Brass parts spills should constitute only a trip and fall hazard.</p> <p>WASTE DISPOSAL METHOD: Brass metal is valuable and may be recycled by foundries and secondary metal smelters. Avoid melting brass chips covered with metal cutting oil since this will cause fugative emissions of dense smoke into the air.</p>	
SECTION VIII - SPECIAL PROTECTION INFORMATION	
<p>RESPIRATORY PROTECTION: (Specify Type) Use a NIOSH approved HEPA respirator when melting, brazing, or grinding brass metal.</p> <p>VENTILATION: Local exhaust ventilation is recommended when melting, brazing, or grinding brass metal.</p> <p>EYE PROTECTION: Wear appropriate eye protection when melting, brazing, soldering, cutting, or grinding brass metal.</p> <p>PROTECTIVE GLOVES: Use cotton work glove to prevent transfer of metal to skin. Use cut resistant gloves when handling metal chips.</p> <p>OTHER PROTECTIVE EQUIPMENT: Wear clothing appropriate to the fabrication operation attempted with this product.</p>	
SECTION IX - SPECIAL PRECAUTIONS	
<p>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:</p> <p>Protect brass parts from moisture to avoid discoloration and corrosion.</p> <p>OTHER PRECAUTIONS: Never place wet brass parts into a melting furnace - explosion hazard.</p>	
<p>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, warranty or guarantee is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy themselves 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.</p> <p>MSDS prepared by: S.R. Pressman, Industrial Hygienist (5/90) Aniline Environmental</p>	