



**MATERIAL SAFETY DATA SHEET**

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

**SECTION I**

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

**SECTION II - HAZARDOUS INGREDIENTS**

| ELEMENT   | CAS NO.   | % RANGE    | OSHA PEL (mg/M <sup>3</sup> )       | ACGIH TLV (mg/M <sup>3</sup> )      |
|-----------|-----------|------------|-------------------------------------|-------------------------------------|
| Copper    | 7440-50-8 | 55 - 92.2  | 0.1 fume,<br>1 dust                 | 0.2 fume,<br>1 dust                 |
| Zinc      | 7440-66-6 | 0.5 - 43   | 5 respirable dust,<br>15 total dust | 5 respirable dust,<br>10 total dust |
| Aluminum  | 7429-90-5 | 0 - 7      | 5 respirable dust,<br>15 total dust | 5 respirable dust,<br>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,<br>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

THRESHOLD LIMIT VALUE: See SECTION II - HAZARDOUS INGREDIENTS

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.

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.

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: Brass metal is stable at room temperature.

INCOMPATIBILITY: (Materials to avoid) Strong acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Flammable or toxic gases may evolve when brass is exposed to acids or bases.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Do not use brass pipe and fittings to transport corrosive liquids.

## SECTION VII - SPILL OR LEAK PROCEDURES

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

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.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: (Specify Type) Use a NIOSH approved HEPA respirator when melting, brazing, or grinding brass metal.

VENTILATION: Local exhaust ventilation is recommended when melting, brazing, or grinding brass metal.

EYE PROTECTION: Wear appropriate eye protection when melting, brazing, soldering, cutting, or grinding brass metal.

PROTECTIVE GLOVES: Use cotton work glove to prevent transfer of metal to skin. 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 brass parts from moisture to avoid discoloration and corrosion.

OTHER PRECAUTIONS: Never place wet brass 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, 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.

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

Aniline Environmental