

MERIT BRASS -- BRASS PIPE FITTINGS CDA 36000 - BRASS ALLOYS
MATERIAL SAFETY DATA SHEET
MERIT BRASS AS OF January 1999

NSN: 473000F024620
Manufacturer's CAGE: 9S781
Part No. Indicator: A
Part Number/Trade Name: BRASS PIPE FITTINGS CDA 36000

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General Information
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Item Name: BRASS ALLOYS
Company's Name: MERIT BRASS CO
Company's Street: 1 MERIT DRIVE
Company's P. O. Box: 43127
Company's City: CLEVELAND
Company's State: OH
Company's Country: US
Company's Zip Code: 44143
Company's Emerg Ph #: (216) 261-9800 OR (800) 726-9800
Company's Info Ph #: (216) 261-9800 OR (800) 726-9800
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SE
Date MSDS Prepared: 01MAY90
Safety Data Review Date: 22SEP92
Preparer's Company: MERIT BRASS CO
Preparer's St Or P. O. Box: 1 MERIT DRIVE
Preparer's City: CLEVELAND
Preparer's State: OH
Preparer's Zip Code: 44143
MSDS Serial Number: BNXZY

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: COPPER (DUST & MIST), BRONZE POWDER
Ingredient Sequence Number: 01
Percent: 55-92.2
NIOSH (RTECS) Number: GL5325000
CAS Number: 7440-50-8
OSHA PEL: 0.1 MG(CU)/M3 (FUME)
ACGIH TLV: 0.2 MG/M3 (FUME)
Other Recommended Limit: 1 MG(CU)/M3 (DUST)

Proprietary: NO
Ingredient: ZINC
Ingredient Sequence Number: 02
Percent: 0.5-43%
NIOSH (RTECS) Number: ZG8600000
CAS Number: 7440-66-6
OSHA PEL: 5 MG/CUM (RESP DUST)
ACGIH TLV: 10 MG/CUM

Proprietary: NO
Ingredient: ALUMINUM (POWDER)
Ingredient Sequence Number: 03
Percent: 0-7%

NIOSH (RTECS) Number: BD0330000
CAS Number: 7429-90-5
OSHA PEL: 15 MG/CUM
ACGIH TLV: 10 MG/CUM (DUST)

Proprietary: NO
Ingredient: IRON
Ingredient Sequence Number: 04
Percent: 0.1-0.5
NIOSH (RTECS) Number: NO4565500
CAS Number: 7439-89-6
OSHA PEL: 10 MG/CUM (DUST)
ACGIH TLV: 5 MG/CUM (DUST)

Proprietary: NO
Ingredient: LEAD, INORGANIC LEAD (SUSPECTED HUMAN CARCINOGEN BY IARC, NTP & ACGIH)
Ingredient Sequence Number: 05
Percent: 0.05-4%
NIOSH (RTECS) Number: OF7525000
CAS Number: 7439-92-1
OSHA PEL: 0.05 MG/CUM
ACGIH TLV: 0.15 MG/CUM

Proprietary: NO
Ingredient: MANGANESE, MN COMPOUNDS
Ingredient Sequence Number: 06
Percent: 0-3.5%
NIOSH (RTECS) Number: OO9275000
CAS Number: 7439-96-5
OSHA PEL: (C) 5 MG/M3 DUST
ACGIH TLV: 5 MG/M3 DUST 9293

Proprietary: NO
Ingredient: NICKEL (SOLUBLE) INTENDED CHANGE (IC)
Ingredient Sequence Number: 07
Percent: 0-0.25%
NIOSH (RTECS) Number: QR5950000
CAS Number: 7440-02-0
OSHA PEL: 1 MG/CUM
ACGIH TLV: 0.05 MG/CUM IC (A1)
Other Recommended Limit: 1 MG/CUM

Proprietary: NO
Ingredient: SILICON
Ingredient Sequence Number: 08
Percent: 0-2.2
NIOSH (RTECS) Number: VW0400000
CAS Number: 7440-21-3
OSHA PEL: 15 MG/M3 TDUST
ACGIH TLV: 10 MG/M3 TDUST; 9293

Proprietary: NO
Ingredient: TIN (AS SN)
Ingredient Sequence Number: 09
Percent: 0-1%
NIOSH (RTECS) Number: XP7320000

CAS Number: 7440-31-5
OSHA PEL: 2.0 MG/CUM
ACGIH TLV: 2.0 MG/CUM

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Physical/Chemical Characteristics

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Appearance And Odor: BRASS IS A SHINY YELLOW-GOLDEN COLORED METALLIC SOLID, NO ODOR.
Melting Point: 1500-2100F
Specific Gravity: 7.5-9
Solubility In Water: INSOLUBLE

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Fire and Explosion Hazard Data

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Extinguishing Media: WATER SPRAY OR ABC DRY CHEMICAL
Special Fire Fighting Proc: DON'T USE WATER ON MOLTEN METAL. NO PROCEDURES NEEDED WHEN A SOLID.
Unusual Fire And Expl Hazrds: PLACING WET BRASS PARTS INTO A MELTING FURNACE WOULD BE AN EXPLOSION HAZARD.

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Reactivity Data

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Stability: YES
Materials To Avoid: STRONG ACIDS OR BASES
Hazardous Decomp Products: FLAMMABLE OR TOXIC GASES
Hazardous Poly Occur: NO

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Health Hazard Data

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Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: SKIN: DISCOLORATION. INHALATION: COLD-LIKE SYMPTOMS OF METAL FUME FEVER, METALLIC TASTE IN MOUTH, CHILLS, FEVER, DRY MOUTH & THROAT, & HEADACHE.
Carcinogenicity - NTP: YES
Carcinogenicity - IARC: YES
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NICKEL IS AN A1 CARCINOGEN & LEAD IS A SUSPECTED HUMAN CARCINOGEN BY ACGIH.
Signs/Symptoms Of Overexp: SKIN: DISCOLORATION. INHALATION: COLD-LIKE SYMPTOMS OF METAL FUME FEVER, METALLIC TASTE IN MOUTH, CHILLS, FEVER, DRY MOUTH & THROAT, & HEADACHE.
Emergency/First Aid Proc: INHALATION: REMOVE TO FRESH AIR. EYES: FLUSH W/CLEAN WATER FOR 30 MINS. SKIN: WASH THOROUGHLY W/SOAP & WATER. OBTAIN MEDICAL ATTENTION IN ALL CASES.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: BRASS PARTS SPILLS SHOULD CONSTITUTE ONLY A TRIP & FALL HAZARD.
Waste Disposal Method: BRASS METAL IS VALUABLE & MAY BE RECYCLED BY FOUNDRIES & SECONDARY METAL SMELTERS. AVOID MELTING BRASS CHIPS COVERED W/ METAL CUTTING OIL SINCE THIS WILL CAUSE FUGATIVE EMISSIONS OF DENSE SMOKE INTO THE AIR.
Precautions-Handling/Storing: DON'T USE BRASS PIPE & FITTINGS TO TRANSPORT CORROSIVE LIQUIDS. COPPER FUMES MAY CAUSE THE DISCOLORATION OF SKIN & HAIR.

Other Precautions: PROTECT BRASS PARTS FROM MOISTURE TO AVOID DISCOLORATION & CORROSION. NEVER PLACE WET BRASS PARTS INTO A MELTING FURNACE.

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Control Measures
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Respiratory Protection: USE A NIOSH APPROVED HEPA RESPIRATOR WHEN MELTING, BRAZING, OR GRINDING BRASS METAL.
Ventilation: LOCAL EXHAUSTS: RECOMMENDED WHEN MELTING, BRAZING, OR GRINDING BRASS METAL.
Protective Gloves: COTTON WORK, CUT-RESISTANT
Eye Protection: APPROPRIATE PROTECTION
Other Protective Equipment: CLOTHING APPROPRIATE TO THE FABRICATION OPERATION ATTEMPTED W/THIS PRODUCT.
Work Hygienic Practices: THOROUGHLY SHOWER & CHANGE CLOTHES. WASH HANDS BEFORE EATING.

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Transportation Data
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Disposal Data
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Label Data
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Label Required: NO
Technical Review Date: 22SEP92
Label Date: 10AUG92
Label Status: N
Chronic Hazard: YES
Special Hazard Precautions: CARCINOGENS: NICKEL (A1)
Label Name: MERIT BRASS CO
Label Street: 1 MERIT DRIVE
Label P.O. Box: 43127
Label City: CLEVELAND
Label State: OH
Label Zip Code: 44143
Label Country: US
Label Emergency Number: (216) 261-9800 OR (800) 726-9800
Year Procured: UNK