

MARMON KEYSTONE -- BRASS
MATERIAL SAFETY DATA SHEET
MARMON KEYSTONENSN: 953000N052726
Manufacturer's CAGE: 3R044
Part No. Indicator: A
Part Number/Trade Name: BRASS

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General Information
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Company's Name: MARMON/KEYSTONE CORP
Company's P. O. Box: 992
Company's City: BUTLER
Company's State: PA
Company's Country: US
Company's Zip Code: 16001
Company's Emerg Ph #: 412-283-4500
Company's Info Ph #: 412-283-4500
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SMJ
Date MSDS Prepared: 01JAN88
Safety Data Review Date: 30AUG94
MSDS Serial Number: BVMTW
Hazard Characteristic Code: NK

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: COPPER (SARA III) (BASE METAL)
Ingredient Sequence Number: 01
Percent: 60-70
NIOSH (RTECS) Number: GL5325000
CAS Number: 7440-50-8
OSHA PEL: 0.1MG/M3 FUME;1 DUST
ACGIH TLV: 0.2 MG/M3 FUME

Proprietary: NO
Ingredient: ZINC OXIDE (ALLOYING ELEMENT)
Ingredient Sequence Number: 02
Percent: 30-40
NIOSH (RTECS) Number: ZH4810000
CAS Number: 1314-13-2
OSHA PEL: 15 MG/M3 TDUST
ACGIH TLV: 10MG/M3 TDUST

Proprietary: NO
Ingredient: TIN (ALLOYING ELEMENT)
Ingredient Sequence Number: 03
Percent: <1
NIOSH (RTECS) Number: XP7320000
CAS Number: 7440-31-5
OSHA PEL: 2 MG/M3
ACGIH TLV: 2 MG/M3

Proprietary: NO
Ingredient: LEAD (SARA III) (FREE CUTTING LEADED)
Ingredient Sequence Number: 04

Percent: <4
NIOSH (RTECS) Number: OF7525000
CAS Number: 7439-92-1
OSHA PEL: SEE 1910.1025
ACGIH TLV: 0.5 MG/M3, DUST

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Physical/Chemical Characteristics
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Appearance And Odor: GOLD/YELLOW, ODORLESS SOLID.
Boiling Point: N/A
Melting Point: 1600F,871C
Vapor Pressure (MM Hg/70 F): N/A
Specific Gravity: >8 (H*20=1)
pH: N/A

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Fire and Explosion Hazard Data
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Flash Point: NOT APPLICABLE
Lower Explosive Limit: N/A
Upper Explosive Limit: N/A
Extinguishing Media: USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING FIRE (FP N).
Special Fire Fighting Proc: NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N).
Unusual Fire And Expl Hazrds: STEEL PRODUCTS IN THE SOLID STATE PRESENT NO FIRE OR EXPLOSION HAZARD.

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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): EXPOSURE DURING STORAGE TO STRONG ACIDS, BASES OR OXIDIZING AGENTS.
Materials To Avoid: MERCURY, AMMONIA, ACETYLENE, ACIDS
Hazardous Decomp Products: TOX GASES, AEROSOLS & VAPS MAY BE RELEASED IN FIRE INVOLVING COPPER ALLOYS IF FUMES OF OTHER CMPDS/OTHER (SUPP DATA)
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT

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Health Hazard Data
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LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: SHORT TERM EXPOS TO FUMES/DUST MAY PROVIDE IRRIT OF EYES & RESP SYS. INHAL OF HIGH CONCENTRATIONS OF FRESHLY FORMED OXIDE FUMES OF COPPER, ZINC AND LEAD MAY CAUSE METAL FUME FEVER CHARACTERIZED BY A METALLIC TASTE IN THE MOUTH, DRYNESS AND IRRITATION OF THE THROAT AND INFLUENZA-LIKE SYMPTOMS. (EFTS OF OVEREXP)
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT
Signs/Symptoms Of Overexp: HLTH HAZ:INHAL OF LEAD PARTICLES MAY RESULT IN LEAD-INDUCED SYSTEMIC TOXICITY. SYMPS OF LEAD POISONING INCL ABDOMINAL CRAMPS, ANEMIA, MUSCLE WEAK & HDCH. PRLNGD EXPOS CAN CAUSE BEHAVIORAL CHANGES, KIDNEY DAMAGE, CNS DAMAGE & REPRO EFTS. LEAD APPEARS ON NAVY

LISTING OF OCCUPATIONAL CHEM REPROD HAZ. SEEK (SUPP DATA)
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: INHAL:REMOVE TO FRESH AIR, IF CONDITION
CONTINUES, CONSULT A PHYSICIAN. EYES:FLUSH WITH WATER FOR AT LEAST 15
MINUTES; OBTAIN MEDICAL ATTENTION. SKIN:REMOVE PARTICLES BY WASHING
THOROUGHLY WITH SOAP AND WATER. SEEK MEDICAL ATTENTION IF CONDITION
PERSISTS. INGEST:IF SIGNIFICANT AMOUNTS OF METAL ARE INGESTED, CONSULT
PHYSICIAN.

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Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: FINE TURNINGS AND SMALL CHIPS SHOULD BE
SWEPT OR VACUUMED. SCRAP METAL CAN BE RECLAIMED FOR REUSE.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: USED OR UNUSED PRODUCT SHOULD BE DISPOSED OF IN
ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
Precautions-Handling/Storing: IN WELDING, PREC SHOULD BE TAKEN FOR
AIRBORNE CONTAM WHICH MAY ORIGINATE FROM COMPONENTS OF WELDING ROD. ARC/
SPARK GENERATED WHEN WELDING/ (SUPP DATA)
Other Precautions: NONE SPECIFIED BY MANUFACTURER.

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Control Measures
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Respiratory Protection: NIOSH/MSHA APPROVED DUST AND FUME RESPIRATOR
SHOULD BE USED TO AVOID EXCESSIVE INHALATION OF PARTICULATES WHEN EXPOSURE
EXCEEDS TLV'S.
Ventilation: NONE SPECIFIED BY MANUFACTURER.
Protective Gloves: IMPERVIOUS GLOVES (FP N).
Eye Protection: ANSI APPVD SFTY GLASSES OR GOGGS (FP N).
Other Protective Equipment: AS REQUIRED DEPENDING ON OPERATIONS FOR
WELDING, BURNING OR HANDLING OPERATIONS.
Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.
Suppl. Safety & Health Data: HAZ DECOMP PRODS:CONTACTING MATERIALS ARE
INVOLVED. HNDLG/STOR PREC:BURNING COULD BE A SOURCE OF IGNITION FOR
COMBUSTIBLE AND FLAMMABLE MATERIALS. EFTS OF OVEREXP:CONSULTATION FROM
APPROP HLTH PROFESSIONALS CONCERNING LATEST HAZARD LIST INFO AND SAFE
HANDLING AND EXPOSURE INFORMATION (FP N).

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Transportation Data
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Disposal Data
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Label Data
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Label Required: YES
Technical Review Date: 30AUG94
Label Status: G
Common Name: BRASS
Chronic Hazard: YES
Signal Word: WARNING!
Acute Health Hazard-Moderate: X
Contact Hazard-Slight: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: ACUTE:SHORT TERM EXPOS TO FUMES/DUST MAY

PROVIDE IRRIT OF EYES & RESP SYS. INHAL OF HIGH CONC OF FRESHLY FORMED OXIDE FUMES OF COPPER, ZINC AND LEAD MAY CAUSE METAL FUME FEVER CHARACTERIZED BY A METALLIC TASTE IN THE MOUTH, DRYNESS AND IRRITATION OF THE THROAT AND INFLUENZA-LIKE SYMPTOMS. INHAL OR INGEST OF LEAD PARTICLES MAY RESULT IN LEAD-INDUCED SYSTEMIC TOXICITY. SYMPTOMS OF LEAD POISONING INCLUDE ABDOMINAL CRAMPS, ANEMIA, MUSCLE WEAK & HEADACHE. CHRONIC:CONTAINS LEAD WHICH APPEARS ON THE NAVY'S OCCUPATIONAL CHEM REPRO HAZ LIST (FP N). PRLNGD EXPOS CAN CAUSE BEHAVIORAL CHANGES, KIDNEY DAMAGE. CNS DAMAGE AND REPRODUCTIVE EFFECTS.

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

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Label Zip Code: 16001

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