

BOWMAN DISTRIBUTION BARNES GROUP -- BOWMABRAZE SERIES 25000 BRAZING ALLOY, 2500
MATERIAL SAFETY DATA SHEET
NSN: 343900N027157
Manufacturer's CAGE: 05573
Part No. Indicator: A
Part Number/Trade Name: BOWMABRAZE SERIES 25000 BRAZING ALLOY, 2500

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General Information
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Company's Name: BOWMAN DISTRIBUTION, BARNES GROUP INC
Company's Street: 850 EAST 72ND ST
Company's City: CLEVELAND
Company's State: OH
Company's Country: US
Company's Zip Code: 44103
Company's Emerg Ph #: 216-391-7200
Company's Info Ph #: 216-391-7200
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SMJ
Date MSDS Prepared: 27MAY88
Safety Data Review Date: 27FEB92
MSDS Serial Number: BNLNC
Hazard Characteristic Code: N1

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: ZINC
Ingredient Sequence Number: 01
NIOSH (RTECS) Number: ZG8600000
CAS Number: 7440-66-6
OSHA PEL: 10 MG/M3 TDUST
ACGIH TLV: 10 MG/M3 TDUST

Proprietary: NO
Ingredient: IRON (III) OXIDE. MFR'S CAS NO:7440-89-6.
Ingredient Sequence Number: 02
NIOSH (RTECS) Number: NO7400000
CAS Number: 1309-37-1
OSHA PEL: 10 MG/M3 (FE)
ACGIH TLV: 5 MG/M3 (FE), B2; 9293

Proprietary: NO
Ingredient: MANGANESE
Ingredient Sequence Number: 03
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
Ingredient Sequence Number: 04
NIOSH (RTECS) Number: QR5950000
CAS Number: 7440-02-0
OSHA PEL: 1 MG/M3
ACGIH TLV: 1 MG/M3

Proprietary: NO
Ingredient: SILICON
Ingredient Sequence Number: 05
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
Ingredient Sequence Number: 06
NIOSH (RTECS) Number: XP7320000
CAS Number: 7440-31-5
OSHA PEL: 2 MG/M3
ACGIH TLV: 2 MG/M3

Proprietary: NO
Ingredient: SILVER
Ingredient Sequence Number: 07
NIOSH (RTECS) Number: VW3500000
CAS Number: 7440-22-4
OSHA PEL: 0.01 MG/M3
ACGIH TLV: 0.1 MG/M3

Proprietary: NO
Ingredient: ALUMINUM
Ingredient Sequence Number: 08
NIOSH (RTECS) Number: BD0330000
CAS Number: 7429-90-5
OSHA PEL: 15 MG/M3 DUST;5 FUME
ACGIH TLV: 10 MG/M3 DUST;5 FUME

Proprietary: NO
Ingredient: COPPER
Ingredient Sequence Number: 09
NIOSH (RTECS) Number: GL5325000
CAS Number: 7440-50-8
OSHA PEL: 0.1MG/M3 FUME;1 DUST
ACGIH TLV: 0.2MG/M3 FUME;1 DUST

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Physical/Chemical Characteristics

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Appearance And Odor: SOLID
Boiling Point: N/A
Vapor Pressure (MM Hg/70 F): N/A
Vapor Density (Air=1): N/A
Specific Gravity: N/A
Evaporation Rate And Ref: NOT APPLICABLE
Solubility In Water: NOT APPLICABLE
Percent Volatiles By Volume: N/A
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: MEDIA SUITABLE FOR SURROUNDING FIRE (FP N).
Special Fire Fighting Proc: WEAR NIOSH/MSHA APPROVED SCBA & FULL
PROTECTIVE EQUIPMENT (FP N).
Unusual Fire And Expl Hazrds: NOT APPLICABLE

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Reactivity Data

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Stability: YES
Cond To Avoid (Stability): NOT APPLICABLE
Materials To Avoid: NOT APPLICABLE
Hazardous Decomp Products: NOT APPLICABLE

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: NO
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: WEAKNESS, QUALM.
Carcinogenicity - NTP: YES
Carcinogenicity - IARC: YES
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NICKEL:GROUP 1(IARC), GROUP 2(NTP).
Signs/Symptoms Of Overexp: SEE HEALTH HAZARDS.
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: INHAL:EXPOSE TO FRESH AIR, CALL MD. INGEST: CALL MD IMMEDIATELY (FP N). EYES:IMMEDIATELY FLUSH W/POTABLE WATER FOR MINIMUM OF 15 MINUTES, SEEK ASSISTANCE FROM MD (FP N). SKIN:FLUSH W/COPIOUS AMOUNTS OF WATER. CALL MD (FP N).

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Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: NOT APPLICABLE
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: DISPOSAL MUST BE I/A/W FEDERAL, STATE & LOCAL REGULATIONS (FP N).
Precautions-Handling/Storing: NOT APPLICABLE
Other Precautions: ELECTRIC ARC & WELDING SPATTERS CAN IGNITE INFLAMMABLE MATERIALS.

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Control Measures
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Respiratory Protection: NIOSH/MSHA APPROVED PROTECTIVE MASK OR FRESH AIR MASK IN NARROW ROOMS OR WHEN EXCEEDING TLV VALUES.
Ventilation: LOC EXHST VENT ABOVE ALL IN NARROW ROOMS. MECH (GEN) VENT WHEN EXCEEDING TLV VALUES. SPECIAL VENT IN CLSD CNTNRS, ETC.
Protective Gloves: IMPERVIOUS GLOVES (FP N).
Eye Protection: WELDER'S HELMET/FCSHLD W/APPROP (SUPDAT)
Other Protective Equipment: PROTECTIVE CLOTHING - LEATHER APRON, WELDER HELMET.
Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.
Suppl. Safety & Health Data: SHADED LENS (FP N).

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Transportation Data
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Trans Data Review Date: 92205
DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
AFI PSN Code: ZZZ
AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
Additional Trans Data: NOT REGULATED FOR TRANSPORTATION

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Disposal Data
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Label Data
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Label Required: YES
Technical Review Date: 27FEB92

Label Date: 25FEB92
Label Status: G
Common Name: BOWMABRAZE SERIES 25000 BRAZING ALLOY, 25004
Chronic Hazard: YES
Signal Word: CAUTION!
Acute Health Hazard-Slight: X
Contact Hazard-None: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: ACUTE:MAY CAUSE WEAKNESS, QUALM. CONTACT
HAZARDS:NONE LISTED BY MANUFACTURER. CHRONIC:THIS PRODUCT CONTAINS NICKEL
WHICH IS A SUSPECT HUMAN CARCINOGEN.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: BOWMAN DISTRIBUTION, BARNES GROUP INC
Label Street: 850 EAST 72ND ST
Label City: CLEVELAND
Label State: OH
Label Zip Code: 44103
Label Country: US
Label Emergency Number: 216-391-7200