

JW HARRIS -- BRAZING ALLOYS (SILVER) - BRAZING ALLOY SILVER  
 MATERIAL SAFETY DATA SHEET  
 NSN: 3439010126658  
 Manufacturer's CAGE: 27911  
 Part No. Indicator: A  
 Part Number/Trade Name: BRAZING ALLOYS (SILVER)

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 General Information  
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Item Name: BRAZING ALLOY SILVER  
 Company's Name: JW HARRIS CO INC  
 Company's Street: 10930 DEERFIELD RD  
 Company's City: CINCINNATI  
 Company's State: OH  
 Company's Country: US  
 Company's Zip Code: 45242  
 Company's Emerg Ph #: 800-543-4536  
 Company's Info Ph #: 513-891-2000  
 Record No. For Safety Entry: 001  
 Tot Safety Entries This Stk#: 001  
 Status: SMJ  
 Date MSDS Prepared: 01APR90  
 Safety Data Review Date: 23FEB95  
 MSDS Serial Number: BGDHG  
 Specification Number: QQ-B-654  
 Hazard Characteristic Code: N1  
 Unit Of Issue: TO  
 NRC/State License Number: N/A  
 Net Explosive Weight: N/A  
 Net Propellant Weight-Ammo: N/A

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 Ingredients/Identity Information  
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Proprietary: NO  
 Ingredient: SILVER (SARA 313) (CERCLA)  
 Ingredient Sequence Number: 01  
 Percent: 15  
 NIOSH (RTECS) Number: VW3500000  
 CAS Number: 7440-22-4  
 OSHA PEL: 0.01 MG/M3  
 ACGIH TLV: 0.1 MG/M3

Proprietary: NO  
 Ingredient: COPPER (SARA 313) (CERCLA)  
 Ingredient Sequence Number: 02  
 Percent: 80  
 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: PHOSPHOROUS (WHITE) (SARA 302/313) (CERCLA)  
 Ingredient Sequence Number: 03  
 Percent: 5  
 NIOSH (RTECS) Number: TH3500000  
 CAS Number: 7723-14-0  
 OSHA PEL: 0.1 MG/M3  
 ACGIH TLV: 0.02 PPM

Proprietary: NO

Ingredient: SUPDAT: OPERATOR'S HEAD W/RESPECT TO FUME PLUME, AS WELL AS PRESENCE OF CONTAMINANTS IN ATM (SUCH AS CHLORINATED (ING 5)

Ingredient Sequence Number: 04

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

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Proprietary: NO

Ingredient: ING 4: HYDROCARBON VAPS FROM CLEANING & DEGREASING ACTIVITIES) . WHEN FILLER METAL IS CONSUMED, FUME & GAS DECOMP (ING 6)

Ingredient Sequence Number: 05

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

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Proprietary: NO

Ingredient: ING 5: PRODS & NOT INGREDIENTS IN ROD/WIRE ARE IMPORTANT. CONC OF GIVEN FUME/GAS COMPONENT MAY DECR/INCR BY MANY (ING 7)

Ingredient Sequence Number: 06

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

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Proprietary: NO

Ingredient: ING 6: TIMES THE ORIGINAL CONC IN FILLER METAL. DECOMP PRODS OF NORM OPERATION INCL THOSE ORIGINATING FROM (ING 8)

Ingredient Sequence Number: 07

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

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Proprietary: NO

Ingredient: ING 7: VOLATILIZATION RXN OF THE WIRE.

Ingredient Sequence Number: 08

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

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Proprietary: NO

Ingredient: VENT: EMPLOYEE TO KEEP HIS/HER HEAD OUT OF THE FUMES. SEE ANSI/ASC Z49.1 SECTION 5.

Ingredient Sequence Number: 09

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

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Proprietary: NO

Ingredient: EYE PROT: & FULL LENGTH FSHLD (FP N). USE FSHLD W/FILTER LENS OF APPROP SHADE NUMBER (SEE ANSI/ASC Z49.1- (ING 11)

Ingredient Sequence Number: 10

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

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Proprietary: NO

Ingredient: ING 10: SECTION 4.2). PROVIDE PROT SCREENS & FLASH GOGGLES, IF NEC, TO SHIELD OTHERS.

Ingredient Sequence Number: 11

NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE  
 ACGIH TLV: NOT APPLICABLE

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 Proprietary: NO  
 Ingredient: OTHER PROT EQUIP: INCL GLOVES & PROT FSHLD & MAY INCL ARM  
 PROTECTORS, APRONS, HATS, SHOULDER PROT, AS WELL AS (ING 13)  
 Ingredient Sequence Number: 12  
 NIOSH (RTECS) Number: 9999999ZZ  
 OSHA PEL: NOT APPLICABLE  
 ACGIH TLV: NOT APPLICABLE

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 Proprietary: NO  
 Ingredient: ING 12: DARK SUBSTANTIAL CLOTHING.  
 Ingredient Sequence Number: 13  
 NIOSH (RTECS) Number: 9999999ZZ  
 OSHA PEL: NOT APPLICABLE  
 ACGIH TLV: NOT APPLICABLE

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Physical/Chemical Characteristics

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Appearance And Odor: NONE SPECIFIED BY MANUFACTURER.  
 Viscosity: N/A  
 Radioactivity: N/A  
 Autoignition Temperature: N/A

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Fire and Explosion Hazard Data

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Flash Point: NONFLAMMABLE  
 Extinguishing Media: MEDIA SUITABLE FOR SURROUNDING FIRE (FP N).  
 Special Fire Fighting Proc: USE NIOSH/MSHA APPROVED SCBA AND FULL  
 PROTECTIVE EQUIPMENT (FP N).  
 Unusual Fire And Expl Hazrds: OPEN FLAME AND SPARKS CAN IGNITE  
 COMBUSTIBLES. SEE ANSI/ASC Z49.1-1983 SECTION 6.

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Reactivity Data

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Stability: YES  
 Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.  
 Materials To Avoid: NONE SPECIFIED BY MANUFACTURER.  
 Hazardous Decomp Products: BRAZING FUMES & GASES CANNOT BE CLASSIFIED  
 SIMPLY. COMPOSITION & QTY OF BOTH ARE DEPENDENT ON METAL BEING (SUPDAT)  
 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: COPPER FUME MAY CAUSE METAL FUME FEVER.  
 SHORT TERM SYMPS MAY INCL METALLIC TASTE IN MOUTH, DRYNESS OR IRRIT OF  
 THROAT FOLLOWED BY COUGHING, SHORTNESS OF BREATH, NAUSEA, FEVER, BODY ACHE  
 & CHILLS. LONG TERM EXPOS TO WELDING FUME, GASES OR DUST MAY CONTRIBUTE TO  
 PULM IRRIT OR PNEUMOCONIOSIS. BRAZING (EFTS OF OVEREXP)  
 Carcinogenicity - NTP: NO  
 Carcinogenicity - IARC: NO  
 Carcinogenicity - OSHA: NO  
 Explanation Carcinogenicity: NOT RELEVANT  
 Signs/Symptoms Of Overexp: HLTH HAZ: ALLOYS ARE FREQUENTLY USED W/

FLUORIDE TYPE FLUX. IF APPLIC, FLUX FUME SHOULD BE CONSIDERED ONE RECOM WAY TO DETERMINE COMPOSITION & QTY OF FUMES & GASES TO WHICH WORKERS ARE EXPOSED IS TO TAKE AIR SAMPLE IN WORKER'S BRTHG ZONE. SEE ANSI/AWS F1.1 AVAILABLE FROM AMERICAN WELDING SOCIETY.

Med Cond Aggravated By Exp: INDIVIDUALS WITH IMPAIRED PULMONARY FUNCTIONS OR ILLNESS MAY HAVE SYMPTOMS EXACERBATED BY FUME IRRITANTS. IMMEDIATELY FLUSH W/POTABLE WATER FOR A MINIMUM OF 15 MINUTES, SEEK ASSISTANCE FROM MD (FP N). SKIN: FLUSH W/COPIOUS AMOUNTS OF WATER. CALL MD (FP N). INHAL: REMOVE FROM DUST OR FUME EXPOSURE. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. SUMMON MEDICAL AID IMMEDIATELY.

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 Precautions for Safe Handling and Use  
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Steps If Matl Released/Spill: NONE SPECIFIED BY MANUFACTURER.  
 Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.  
 Waste Disposal Method: DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS (FP N).  
 Precautions-Handling/Storing: READ & UNDERSTAND MANUFACTURER'S INSTRUCTION & PRECAUTIONARY LABEL ON PRODUCT. SEE ANS Z49.1, "SAFETY IN WELDING & CUTTING."  
 Other Precautions: NONE SPECIFIED BY MANUFACTURER.

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 Control Measures  
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Respiratory Protection: USE NIOSH/MSHA APPRVD RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN BRAZING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.  
 Ventilation: USE ENOUGH VENT & LOC EXHST AT FLAME TO KEEP FUMES & GASES BELOW TLVS IN WORKER'S BRTHG ZONE & GEN AREA. TRAIN (ING 9)  
 Protective Gloves: IMPERVIOUS GLOVES (FP N).  
 Eye Protection: ANSI APPRVD CHEM WORKERS GOGG (ING 10)  
 Other Protective Equipment: WEAR HEAD & BODY PROT WHICH HELP PVNT INJURY FROM HEAT, RADIA, SPK & FLAME. SEE ANSI Z49.1. AT MINIMUM THIS (ING 12)  
 Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.  
 Suppl. Safety & Health Data: HAZ DECOMP PRODS: BRAZED, PROCESS, PROC & FILLER METALS USED. OTHER CNDTNS WHICH ALSO INFLUENCE COMPOSITION & QTY OF FUMES & GASES TO WHICH WORKERS MAY BE EXPOSED INCL:COATINGS ON METAL BEING BRAZED (SUCH AS PAINT, PLATING/GALVANIZING), NUMBER OF OPERATORS & VOL OF WORK AREA, QUALITY & AMT OF VENT, POSITION OF (ING 4)

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 Transportation Data  
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Trans Data Review Date: 87064  
 DOT PSN Code: ZZZ  
 DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
 DOT/DoD Exemption Number: N/A  
 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 SHIPPING

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 Disposal Data  
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 Label Data  
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Label Required: YES

Technical Review Date: 23FEB95  
Label Date: 21FEB95  
Label Status: G  
Common Name: BRAZING ALLOYS (SILVER)  
Chronic Hazard: YES  
Signal Word: CAUTION!  
Acute Health Hazard-Slight: X  
Contact Hazard-Slight: X  
Fire Hazard-None: X  
Reactivity Hazard-None: X  
Special Hazard Precautions: ACUTE: COPPER FUME MAY CAUSE METAL FUME FEVER.  
SHORT TERM SYMPTOMS MAY INCLUDE METALLIC TASTE IN MOUTH, DRYNESS OR  
IRRITATION OF THROAT FOLLOWED BY COUGHING, SHORTNESS OF BREATH, NAUSEA,  
FEVER, BODY ACHE & CHILLS. CHRONIC: LONG TERM EXPOSURE TO WELDING FUME,  
GASES OR DUST MAY CONTRIBUTE TO PULMONARY IRRITATION OR PNEUMOCONIOSIS.  
Protect Eye: Y  
Protect Skin: Y  
Protect Respiratory: Y  
Label Name: JW HARRIS CO INC  
Label Street: 10930 DEERFIELD RD  
Label City: CINCINNATI  
Label State: OH  
Label Zip Code: 45242  
Label Country: US  
Label Emergency Number: 800-543-4536