

J W HARRIS -- SILICON BRONZE - COPPER BASED WELDING AND BRAZE WELDING WIRE & ROD

MATERIAL SAFETY DATA SHEET

J W HARRISNSN: 343900F008799

Manufacturer's CAGE: 27911

Part No. Indicator: A

Part Number/Trade Name: SILICON BRONZE

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General Information
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Item Name: COPPER BASED WELDING AND BRAZE WELDING WIRE & ROD

Company's Name: J. W. HARRIS CO., INC.

Company's Street: 10930 DEERFIELD ROAD

Company's City: CINCINNATI

Company's State: OH

Company's Zip Code: 45242

Company's Emerg Ph #: (513) 891-2000

Company's Info Ph #: (513) 891-2000

Record No. For Safety Entry: 001

Tot Safety Entries This Stk#: 001

Date MSDS Prepared: 01MAR88

Safety Data Review Date: 26JUL89

Preparer's Company: J. W. HARRIS CO., INC.

Preparer's St Or P. O. Box: 10930 DEERFIELD ROAD

Preparer's City: CINCINNATI

Preparer's State: OH

Preparer's Zip Code: 45242

MSDS Serial Number: BGYSW

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Ingredients/Identity Information
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Proprietary: NO

Ingredient: COPPER (SARA III)

Ingredient Sequence Number: 01

Percent: >94%

NIOSH (RTECS) Number: GL5325000

CAS Number: 7440-50-8

OSHA PEL: 0.1MG/M3 FUME/1 DUST

ACGIH TLV: 0.2MG/M3 FUME; 9192

Other Recommended Limit: 0.2 MG/CUM FUMES

Proprietary: NO

Ingredient: ZINC (SARA III)

Ingredient Sequence Number: 02

Percent: 1.5%

NIOSH (RTECS) Number: ZG8600000

CAS Number: 7440-66-6

OSHA PEL: 10 MG ZNO/M3

ACGIH TLV: 10 MG ZNO/M3; 9192

Proprietary: NO

Ingredient: TIN

Ingredient Sequence Number: 03

Percent: 1.5%

NIOSH (RTECS) Number: XP7320000

CAS Number: 7440-31-5

OSHA PEL: 2 MG/M3

ACGIH TLV: 2 MG/M3; 9192

Proprietary: NO
Ingredient: MANGANESE (SARA III)
Ingredient Sequence Number: 04
Percent: 1.5%
NIOSH (RTECS) Number: 009275000
CAS Number: 7439-96-5
OSHA PEL: (C) 5 MG/M3 DUST
ACGIH TLV: 5 MG/M3 DUST 9293

Proprietary: NO
Ingredient: IRON OXIDE
Ingredient Sequence Number: 05
Percent: 0.5%
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: SILICA, AMORPHOUS, DUST
Ingredient Sequence Number: 06
Percent: 2.8-4.0
NIOSH (RTECS) Number: VV7310000
CAS Number: 112945-52-5
OSHA PEL: 6 MG/M3
ACGIH TLV: 10 MG/M3; 8990
Other Recommended Limit: 20 MPPCF

Proprietary: NO
Ingredient: BORON OXIDE
Ingredient Sequence Number: 07
Percent: <1%
NIOSH (RTECS) Number: ED7900000
CAS Number: 1303-86-2
OSHA PEL: 15 MG/M3 TDUST
ACGIH TLV: 10 MG/M3; 9293

Proprietary: NO
Ingredient: SODIUM TETRABORATE, ANHYDROUS
Ingredient Sequence Number: 08
Percent: <1%
NIOSH (RTECS) Number: VZ2240000
CAS Number: 1330-43-4
OSHA PEL: 10 MG/M3
ACGIH TLV: 1 MG/M3; 9192

Proprietary: NO
Ingredient: TOLUENE (SARA III)
Ingredient Sequence Number: 09
Percent: <0.1%
NIOSH (RTECS) Number: XS5250000
CAS Number: 108-88-3
OSHA PEL: 200 PPM/150 STEL
ACGIH TLV: 50 PPM; 9293
Other Recommended Limit: 100 PPM

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Physical/Chemical Characteristics
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Appearance And Odor: SOLID WIRE/ROD. RODS MAY BE COATED W/CHEMICAL FLUX.
FLUX COATING MAY BE WHITE.

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Fire and Explosion Hazard Data
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Unusual Fire And Expl Hazrds: NON FLAMMABLE. WELDING ARC & SPARKS CAN
IGNITE COMBUSTIBLES.

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Reactivity Data
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Stability: YES

Hazardous Decomp Products: CO, CO2, OZONE, NITROGEN OXIDES & METAL OXIDE
FUMES.

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: INHALATION: METAL FUME FEVER/DRYNESS/
IRRITATION OF THE NOSE, THROAT, LUNGS, SKIN & PULMONARY SYS./
PNEUMOCONIOSIS/NAUSEA/BODY ACHE/CHILLS/HEADACHE/COUGHING/SHORTNESS OF
BREATH. ARC RAYS: ELECTRIC ARC WELDING OPERATIONS CAN INJURE EYES/BURN
SKIN. ELECTRIC SHOCK: ARC WELDING EQUIPMENT CAN KILL.

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: NONE

Signs/Symptoms Of Overexp: INHALATION: METAL FUME FEVER/DRYNESS/
IRRITATION OF THE NOSE, THROAT, LUNGS, SKIN & PULMONARY SYS./
PNEUMOCONIOSIS/NAUSEA/BODY ACHE/CHILLS/HEADACHE/COUGHING/SHORTNESS OF
BREATH. REPEATED EXPOSURE OF TOLUENE CAN CAUSE NEUROTOXIC/EMBRYOFETOTOXIC
EFFECTS.

Med Cond Aggravated By Exp: INDIVIDUALS W/IMPAIRED PULMONARY FUNCTIONS OR
ILLNESS MAY HAVE SYMPTOMS EXACERBATED BY FUME IRRITANTS.

Emergency/First Aid Proc: INHALATION: 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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Precautions-Handling/Storing: KEEP HEAD OUT OF FUMES.

Other Precautions: TRAIN THE EMPLOYEE NOT TO TOUCH LIVE ELECTRICAL PARTS/
TO INSULATE HIMSELF FROM WORK & GROUND. ARC RAYS: ELECTRIC ARC WELDING
OPERATIONS CAN INJURE EYES/BURN SKIN.

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Control Measures
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Respiratory Protection: USE RESPIRABLE FUME OR AIR SUPPLIED RESPIRATOR
WHEN WELDING, BRAZING, OR SOLDERING IN CONFINED SPACE.

Ventilation: USE LOCAL EXHAUST VENTILATION AT THE ARC TO KEEP <TLV.

Protective Gloves: WELDER'S

Eye Protection: FACESHIELD W/FILTER LENS SHADE NUMBER

Other Protective Equipment: ARM PROTECTORS, APRONS, HATS & SHOULDER PROTECTION. PROVIDE PROTECTION SCREENS/FLASH GOGGLES.

Work Hygienic Practices: DETERMINE EXPOSURE BY MONITORING FUMES IN THE BREATHING ZONE.

Suppl. Safety & Health Data: THE CONCENTRATION OF A GIVEN COMPONENT MAY INCREASE OR DECREASE BY MANY TIMES THE CONCENTRATION IN THE FUMES.

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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

Label Status: G

Common Name: SILICON BRONZE

Special Hazard Precautions: INHALATION: METAL FUME FEVER/DRYNESS/IRRITATION OF THE NOSE, THROAT, LUNGS, SKIN & PULMONARY SYS./PNEUMOCONIOSIS/NAUSEA/BODY ACHE/CHILLS/HEADACHE/COUGHING/SHORTNESS OF BREATH. ARC RAYS: ELECTRIC ARC WELDING OPERATIONS CAN INJURE EYES/BURN SKIN. ELECTRIC SHOCK: ARC WELDING EQUIPMENT CAN KILL. INHALATION: METAL FUME FEVER/DRYNESS/IRRITATION OF THE NOSE, THROAT, LUNGS, SKIN & PULMONARY SYS./PNEUMOCONIOSIS/NAUSEA/BODY ACHE/CHILLS/ HEADACHE/COUGHING/SHORTNESS OF BREATH. REPEATED EXPOSURE OF TOLUENE CAN CAUSE NEUROTOXIC/EMBRYOFETOTOXIC EFFECTS.

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