

MATERIAL SAFETY DATA SHEET

SIB (SILICON BRONZE)

VERSION DATE 1/5/98

PRINT DATE 1/5/98

SECTION 1

PRODUCT IDENTIFICATION

COMPANY NAME WHO SENT MSDS HARRIS WELCO. DIV. OF J.W. HARRIS CO., INC.
COMPANY ADDRESS 1051 YORK RD
KINGS MOUNTAIN, NC 28086
EMERGENCY PHONE NUMBER (800)-424-9300
MSDS VERSION NUMBER 2
TRADE NAME SIB (SILICON BRONZE)

HAZARD RATING (HMIS) HEALTH-3
FLAMMABILITY-0
REACTIVITY-0
OTHER-1
HMIS DESIGNATED KEY 4-SEVERE HAZARD
3-SERIOUS HAZARD
2-MODERATE HAZARD
1-SLIGHT HAZARD
0-MINIMAL HAZARD

SECTION 2

HAZARDOUS COMPONENTS

MATERIAL	% BY WEIGHT	CAS NUMBER	ACGIH TLV (Mg/M3)	SEC 313
COPPER (DUST)	REM	7440-50-8	1 MG/M3	YES
LEAD (DUST)	0-02	7439-92-1	0.15 MG/M3	YES
MANGANESE (DUST)	.5-1.4	7439-96-5	5 MG/M3	YES
SILICON	2.8-3.6	7440-21-3	10 MG/M3	NA
ZINC	0-1	7440-66-6	10 MG/M3	YES

DENSITY: .308 lb/cu.in

SECTION 3

PHYSICAL PROPERTIES

BOILING POINT NA
MELTING POINT NA
VAPOR PRESSURE NA
VAPOR DENSITY (AIR=1) NA
SOLUBILITY IN WATER NA
SPECIFIC GRAVITY 7.4 - 9.0
EVAPORATION RATE NA
APPEARANCE AND ODOR SILVER OR YELLOW TO RED. NO ODOR

SECTION 4

FIRE AND EXPLOSION DATA

FLASH POINT NA
EXTINGUISHING MEDIA USE SPECIAL MIXTURES OF DRY CHEMICALS OR SAND.
SPECIAL PROCEDURES SOLID MASSIVE FORM IS NOT COMBUSTIBLE. FIRE AND EXPLOSION HAZARDS ARE MODERATE WHEN MATERIAL IN FORM OF DUST AND EXPOSED TO HEAT, FLAME, CHEMICAL REACTION, OR IN CONTACT WITH OXIDIZERS.
UNUSUAL HAZARDS SEE ABOVE. FIRE FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS & PROTECTIVE CLOTHING.

SECTION 5

REACTIVITY DATA

STABILITY STABLE UNDER NORMAL CONDITIONS OF TRANSPORT AND STORAGE.
CONDITIONS TO AVOID MOLTEN METAL MAY REACT VIOLENTLY WITH WATER
HAZARDOUS POLYMERIZATION WILL NOT OCCUR
INCOMPATIBILITY MERCURY, AMMONIA, AND ACETYLENE.
HAZARDOUS DECOMPOSITION PRODUCTS METAL FUME

SECTION 6

HEALTH HAZARD DATA

ROUTES OF ENTRY INHALATION, SKIN, and EYES.
HEALTH HAZARDS RESPIRATORY TRACT IRRITATION, METAL FUME FEVER, EYE IRRITATION. LONG TERM REPEATED EXPOSURES TO EXCESSIVE FUME CONCENTRATIONS MAY LEAD TO INTOXICATION INCLUDING KIDNEY DISEASE, ANEMIA, NERVOUS DISORDERS, BIRTH DEFECTS AND NASAL AND LUNG CANCER
CARCINOGENICITY THE STATE OF CALIFORNIA REQUIRES THE FOLLOWING INFORMATION:
WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, OR BIRTH DEFECTS OR REPRODUCTIVE HARM.
SIGNS & SYMPTOMS OF EXPOSURE UNDER NORMAL HANDLING CONDITIONS, THE SOLID ALLOY PRESENTS NO HEALTH HAZARDS.
MEDICAL CONDITIONS FROM EXPOSURE SEE ABOVE
EMERGENCY & FIRST AID FLUSH EYES WITH WATER. GET MEDICAL ATTENTION. VACUUM OFF EXCESS DUST FROM SKIN. WASH WELL WITH SOAP AND WATER. REMOVE TO FRESH AIR, GET MEDICAL ATTENTION. SEEK MEDICAL ATTENTION IF LARGE QUANTITIES OF MATERIAL HAVE BEEN INGESTED.

ADDITIONAL INFORMATIONNA

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL AND LEAK PROCEDURESIF LARGE QUANTITIES OF DUST ARE SPILLED, REMOVE BY VACUUMING OR WET SWEEPING TO PREVENT HEAVY CONCENTRATION OF AIRBORNE DUST. IF LIQUIDS ARE SPILLED, EVACUATE UNPROTECTED PERSONNEL FROM AREA. ABSORB LIQUID BY MEANS OF DRY SAND OR SIMILAR MATERIAL.

WASTE AND DISPOSAL METHODFOLLOW STATE, FEDERAL, AND LOCAL REGULATIONS CONCERNING DISPOSAL OF WASTE. MAXIMIZE PRODUCT RECOVERY FOR REUSE OR RECYCLING. CONDITIONS OF USE MAY CAUSE THIS MATERIAL TO BECOME A SOLID HAZARDOUS WASTE AS DEFINED BY STATE, LOCAL AND FEDERAL REGULATIONS.

HANDLING AND STORING PRECAUTIONSGOOD HOUSEKEEPING MUST BE PRACTICED DURING STORAGE, TRANSFER, AND USE, TO AVOID EXCESSIVE DUST ACCUMULATIONS. APPLY RECOMMENDATIONS OF NFPA 49 DEGREES FOR COPPER ALLOYS.

OTHER PRECAUTIONSNONE

SECTION 8 CONTROL MEASURES

RESPIRATORY MEASURESAPPROVED RESPIRATORY PROTECTION AS SPECIFIED IN NIOSH/OSHA HEALTH GUIDELINES.

VENTILATIONLOCAL EXHAUST REQUIRED IF DUST OR FUME CREATED IN HANDLING. MECHANICAL AS ABOVE TO REDUCE AIRBORNE DUST.

PROTECTIVE GLOVESREQUIRED FOR MELT, GRIND, CUT OR WELD OPERATIONS.

EYE PROTECTIONMINIMUM REQUIREMENT OF SAFETY GLASSES WITH SIDE SHIELDS, AS REQUIRED FOR THE WORK DONE ON OR WITH THE METAL.

OTHER PROTECTIVE EQUIPMENTWASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. MEET REQUIREMENTS OF OSHA LEAD STANDARD WHERE NECESSARY.

WORK/HYGIENIC PRACTICESFOR MAXIMUM SAFETY: BE CERTIFIED FOR, AND WEAR A RESPIRATOR AT ALL TIMES WHEN WELDING AND OR BRAZING.

SECTION 9 DISCLAIMER

THIS DATA IS BELIEVED TO BE ACCURATE. HARRIS WELCO MAKES NO WARRANTY TO AND DISCLAIMS ALL LIABILITY FROM RELIANCE.

SECTION 10 ADDITIONAL INFORMATION

NA = NOT AVAILABLE
CARCINOGENICITY INFORMATION: LEAD AND LEAD COMPOUNDS ARE REQUIRED BY OSHA TO BE CONSIDERED CARCINOGENIC.