

MATERIAL SAFETY DATA SHEET

C656 SILICON BRONZE Revised 03-16-2011

SECTION 1 PRODUCT IDENTIFICATION

Aufhauser Corporation 39 West Mall Plainview New York 11803 Tel. 516-694-8696
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MSDS VERSION NUMBER: 4

TRADE NAME C656 Aufhauser Silicon Bronze Welding Rod and Wire.

HAZARD RATING (HMIS):

HEALTH	FLAMMABILITY	REACTIVITY
2	0	0

HMIS DESIGNATION KEY:

SEVERE HAZARD	SERIOUS HAZARD	MODERATE HAZARD	SLIGHT HAZARD	MINIMAL HAZARD
4	3	2	1	0

SECTION 2 HAZARDOUS COMPONENTS

Material	% by weight	CAS number	ACGIH TLV (mg/m3)	Sec 1313
Copper (dust)	Rem	7440-50-8	1	Yes
Lead (dust)	0-0.2	7439-92-1	0.15	Yes
Manganese (dust)	0.5-1.4	7439-96-5	5	Yes
Silicon	2.8-3.6	7440-21-3	10	NA
Zinc	0-1	7440-66-6	10	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:	ETABLE UNDER NORMAL CONDITIONS OF TRANSPORT AND STORAGE.
CONDITIONS TO AVOID:	MOLTEN METAL MAY REACT VIOLENTLY WITH WATER.
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR
INCOMPATABILITY:	MERCURY, AMMONIA AND ALSO ACETYLENE IF WET AND UNDER PRESSURE.

HAZARDOUS DECOMPOSITION PRODUCTS METAL FUME.

SECTION 6 HEALTH HAZARD DATA

Aufhauser MSDS

ROUTES OF ENTRY:	INHALATION, SKIN, EYES.
HEALTH HAZARDS:	RESPIRATORY TRACT IRRITATION, METAL FUME FEVER EYE IRRITATION. LONG TERM REPEATED EXPOSURE 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 ALLO 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 INFORMATION:	NA

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL AND LEAK PROCEDURES:	IF 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. FOLLOW STATE FEDERAL, AND LOCAL REGULATIONS CONCERNING DISPOSAL OF WASTE.
WASTE AND DISPOSAL METHOD:	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 PRECAUTIONS:	GOOD HOUSE KEEPING MUST BE PRACTICED DURING STORAGE, TRANSFER, AND USE, TO AVOID EXCESSIVE DUST ACCUMULATIONS. APPLY RECOMMENDATIONS OF NFPA 49 DEGREES FOR COPPER ALLOYS.
OTHER PRECAUTIONS:	NONE

SECTION 8 CONTROL MEASURES

RESPIRATORY MEASURES:	APPROVED RESPIRATORY PROTECTION AS SPECIFIED IN NIOSH/OSHA HEALTH GUIDELINES
VENTILATION:	LOCAL EXHAUST REQUIRED IF DUST OR FUME CREATED IN HANDLING. MECHANICAL AS ABOVE TO REDUCE AIRBORNE DUST.
PROTECTIVE GLOVES:	REQUIRED FOR MELT, GRIND, CUT OR WELD OPERATIONS.
EYE PROTECTION:	MINIMUM REQUIREMENT OF SAFETY GLASSES WITH SIDESHIELDS.
OTHER PROTECTIVE EQUIPMENT:	AS REQUIRED FOR THE WORK DONE ON OR WITH THE METAL.
WORK/HYGIENIC PRACTICES:	WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. MEET REQUIREMENTS OF OSHA LEAD STANDARD WHERE NECESSARY. FOR MAXIMUM SAFETY: BE CERTIFIED FOR, WEAR A RESPIRATOR AT ALL TIMES WHEN WELDING AND OR BRAZING.

SECTION 9 DISCLAIMER

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

SECTION 10 ADDITIONAL INFORMATION

NA = NOT AVAILABLE

CARCINOGENITY INFORMATION: LEAD AND LEAD COMPOUNDS ARE REQUIRED BY OSHA TO BE CONSIDERED CARCINOGENIC.