

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Auralloy 830 Self-Fluxing, Non-Fuming Steel Wire  
**AURALLOY PART NUMBER:** 8770-8771  
**PRODUCT TYPE:** SIB (Silicon Bronze)  
**CHEMICAL FAMILY:** N/A

**DATE PREPARED:** August 3, 2000

**CHROMATE INDUSTRIAL CORPORATION**  
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**2. COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME	% BY WEIGHT	OSHA PEL	ACGIH TLV	STEL	CAS #
Copper (dust)*	Rem	N/D	1 mg/m <sup>3</sup>	N/D	7440-50-8
Lead (dust)*	0 - 0.2	N/D	0.15 mg/m <sup>3</sup>	N/D	7439-92-1
Manganese (dust)*	0.5 - 1.4	N/D	5 mg/m <sup>3</sup>	N/D	7439-96-5
Silicon	2.8 - 3.6	N/D	10 mg/m <sup>3</sup>	N/D	7440-21-3
Zinc*	0 - 1	N/D	10 mg/m <sup>3</sup>	N/D	7440-66-6

DENSITY: .308 Lb/cu.in

\* An asterisk (\*) indicates the toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372.

**3. HAZARDS IDENTIFICATION**

**PRIMARY ROUTES OF ENTRY:** Inhalation, skin, eyes

**EFFECTS OF OVEREXPOSURE:**

**INHALATION:** Respiratory tract irritation, metal fume fever

**SKIN CONTACT:** Skin irritation

**EYE CONTACT:** Eye irritation

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

Under normal handling conditions, the solid alloy presents no health hazards.

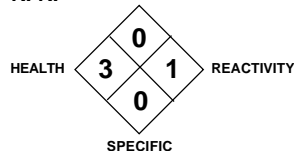
**CHRONIC HEALTH HAZARDS:** Long term repeated exposure to excessive fume concentrations may lead to intoxication including kidney disease, anemia, nervous disorders, birth defects and nasal and lung cancer.

**HAZARD RATINGS**

**NFR:** FLAMMABILITY

**HMS:**

<b>3</b>	<b>HEALTH</b>
<b>0</b>	<b>FLAMMABILITY</b>
<b>1</b>	<b>REACTIVITY</b>
<b>B</b>	<b>PROTECTION</b>

**4. FIRST AID MEASURES**

**EMERGENCY FIRST AID PROCEDURES:**

**INHALATION:** Remove to fresh air, obtain medical attention.

**INGESTION:** Seek medical attention if large quantities of material have been ingested.

**SKIN CONTACT:** Vacuum off excess dust from skin, wash well with soap and water.

**EYE CONTACT:** Flush eyes with water. Get medical attention.

**5. FIRE FIGHTING MEASURES**

**FLASH POINT (METHOD USE):** Nonflammable      **FLAMMABLE LIMITS:** LEL N/A      UEL N/A

**EXTINGUISHING MEDIA:** Use special mixtures of dry chemicals or sand.

**FIRE FIGHTING PROCEDURES:** Firefighters should wear self-contained breathing apparatus and protective clothing.

**UNUSUAL AND EXPLOSION HAZARDS:** 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.

**6. ACCIDENTIAL RELEASE MEASURES**

**SPILLS OR LEAKS:** 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.

**7. HANDLING AND STORAGE**

**SPECIAL PRECAUTIONS:** Good housekeeping must be practiced during storage, transfer and use, to avoid excessive dust accumulations. Apply recommendations of NFPA 49 degrees for copper alloys.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**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.

**SKIN PROTECTION:** 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.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**BOILING POINT:** N/A

**VAPOR DENSITY (AIR = 1):** N/A

**SOLUBILITY IN WATER:** N/A

**PERCENT VOLATILE BY VOLUME:** N/A

**VOLATILE WEIGHT:** N/A

**APPEARANCE & ODOR:** Silver or Yellow to Red. No Odor

**PRODUCT WEIGHT:** N/D

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 7.4 - 9.0

**MELTING POINT:** N/A

**pH:** N/A

**EVAPORATION RATE:** N/A

**FORM:** Solid **VOLATILE COMPONENTS:** N/A

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**10. STABILITY AND REACTIVITY**

**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 (MATERIALS TO AVOID):** Mercury, ammonia and also acetylene if wet and under pressure.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** Metal fume.

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**11. TOXICOLOGICAL INFORMATION**

**EYE:** No data available.

**SKIN:** No data available.

**INGESTION:** No data available.

**INHALATION:** No data available.

**SUBCHRONIC:** No data available.

**CARCINOGENICITY:** Lead and lead compounds are required by OSHA to be considered carcinogenic

**NTP:** Not Listed

**IARC MONOGRAPH:** Not Listed

**OSHA REGULATED:** Not Regulated

**CALIFORNIA PROPOSITION 65:** WARNING: This product contains a chemical known to the State of California to cause cancer, or birth defects or reproductive harm.

**TERATOLOGY:** No data available.

**REPRODUCTION:** No data available.

**MUTAGENICITY:** No data available.

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**12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** No data available.

**CHEMICAL FATE INFORMATION:** No data available.

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**13. DISPOSAL CONSIDERATIONS**

**RCRA HAZARD CLASS:** No data available

**WASTE 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.

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**14. TRANSPORT INFORMATION**

**TRANSPORTATION REQUIREMENTS (49CFR172-101)**

**D.O.T. CLASSIFICATION:** Not regulated

**D.O.T. SHIPPING NAME:** Not regulated

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**15. REGULATORY INFORMATION**

**EXPOSURE LIMITS:** No data available.

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**16. OTHER INFORMATION**

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in this MSDS. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

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N/D — NOT DETERMINED    N/A — NOT APPLICABLE    N/R — NOT REGULATED

Conforms to 29 CFR 1910.1200, OSHA

ANSI Z129.1 - 1988 American National Standard for Hazardous Industrial Chemicals