Material Safety Data Sheet
EAGLE ER70S-2, ER70S-3, ER70S-6, ER70S-7, ER80S-D2
(Essentially similar to U.S. Department of Labor suggested form for
Hazard Communication Standard Compliance)
DATE: 01/01/88

SECTION I PRODUCT IDENTIFICATION

PRODUCT TYPE: Solid Steel Welding Wire
PRODUCT NAME: Eagle ER70S-2, ER70S-3, ER70S-6, ER70S-7, ER80S-D2
CLASSIFICATION: AWS A5.18, (ER70S-3), (ER70S-2), (ER70S-6),
(ER70S-7), AWS A5.28: *(ER80S-D2).
MANUFACTURER: Eagle Wire Co.
205 Clay St.
Bowling Green, KY 42101
TELEPHONE NO.: 502-843-1035

SECTION II HAZARDOUS INGREDIENTS*

IMPORTANT: This section covers the materials from which this product
is manufactured. The fumes and gases produced during welding
with normal use of this product are covered by Section V.

CARBON: CAS #: 1333-86-4
WEIGHT %: Less than .50
EXPOSURE LIMITS:
1984/85 TLV-TWA: 3.5 mg/m³ Carbon Black
OSHA PEL:

MANGANESE: CAS #: 7439-96-5
WEIGHT %: Less than 2.50
EXPOSURE LIMITS:
1984/85 TLV-TWA: 2.5 mg/m³ Mn & Mn Compounds
OSHA PEL:

SILICON: CAS #: 7440-21-3
WEIGHT %: Less than 1.50
EXPOSURE LIMITS:
1984/85 TLV-TWA: 10 mg/m³ total dust
OSHA PEL:

COPPER: CAS #: 7440-50-8
WEIGHT %: Less than .50
EXPOSURE LIMITS:
1984/85 TLV-TWA: .2 mg/m³
OSHA PEL: .10 mg/m³

MOLYBDENUM: CAS #: 7439-98-7
WEIGHT-%: Less than .75
EXPOSURE LIMITS:
1984/85 TLV-TWA: 5 mg/m³
OSHA PEL:

ALUMINUM: CAS #: 7429-90-5
WEIGHT %: Less than .50
EXPOSURE LIMITS:
1984/85 TLV-TWA: 15 mg/m³ as welding fumes
OSHA PEL:
MSDS for: WELDING - SOLID STEEL WELDING WIRE

TITANIUM:  CAS #: 7440-32-6
WEIGHT %: Less than .50
EXPOSURE LIMITS:
  1984/85 TLV-TWA: 10 mg/m³ TiO₂ as Ti
  OSHA PEL: 15 mg/m³

ZIRCONIUM:  CAS #: 7440-67-7
WEIGHT %: Less than .50
EXPOSURE LIMITS:
  1984/85 TLV-TWA: 5 mg/m³ as Zr Compounds
  OSHA PEL:

IRON:  CAS #: 7439-89-6
WEIGHT %: Balance
EXPOSURE LIMITS:
  1984/85 TLV-TWA: 5 mg/m³ Fe₂O₃ as Fe
  OSHA PEL: 10 mg/m³

*The term 'hazardous' should be interpreted as a term required and defined in OSHA Hazard Communication Standard (29 CFR Part 1910.1200) and does not necessarily imply the existence of any hazard. Some of the products listed may not contain all of the ingredients shown in Section II. Typical analyses can be found in the appropriate AWS Specification or from your supplier.

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE: Copper coated or bare solid steel wire.

SECTION IV FIRE AND EXPLOSIVE HAZARD DATA

NON-FLAMMABLE: Welding arc and sparks can ignite combustibles. See ANSI Z49.1 'Safety in Welding and Cutting' (referenced in Section VII) for fire prevention and protection information.

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:
EFFECTS OF OVEREXPOSURE:
EMERGENCY AND FIRST AID PROCEDURES: Move to fresh air. Get medical attention.

SECTION VI REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID:
INCOMPATIBILITY (MATERIALS TO AVOID):
HAZARDOUS DECOMPOSITION PRODUCTS:
HAZARDOUS POLYMERIZATION: N/A

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
WASTE DISPOSAL METHOD:
SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Weld fume respirator or air line respirator for confined space or where exposures are above TLV.

VENTILATION:

LOCAL EXHAUST: In confined or poorly ventilated area.

SPECIAL:

MECHANICAL (GENERAL): Where natural ventilation is poor.

OTHER:

PROTECTIVE GLOVES: Welder’s protective gloves.

EYE PROTECTION: Face shield and welding spectacles.

OTHER PROTECTIVE EQUIPMENT: Welder’s protective clothing for protection against sparks and hot metal.

SECTION IX SPECIAL PRECAUTIONS


PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

OTHER PRECAUTIONS: Arc and sparks could be source of ignition of combustible products.

EAGLE WIRE requests the users of this product to study this Material Safety Data Sheet (MSDS) and become aware of product hazards and safety information. To promote safe use of this product, a user should (1) notify its employees, agents and contractors of the information on this MSDS and any product hazards and safety information; (2) furnish this same information to each of its customers for the products; and (3) requests such customers to notify their employees and customers for the product of the same product hazards and safety information.