

ER 70S6 Welding Wire



MATERIAL SAFETY DATA SHEET

CHEMTREC Phone No. (800) 424 - 9300

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Victor Technologies International Inc.
2800 Airport Road

Denton, Texas 76207

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1440-0220, 0221, 0222, 0447

(940) 566 - 2000
Fax: (940) 381 - 1265

This MSDS is based on air/fuel or oxy/fuel process.
There may be other cautions for electric process.

Material Safety Data Sheet

SECTION I - MATERIAL IDENTIFICATION

Product Name: ER 70S6 Welding Wire (1440-0210)

Product use: Non-ferrous welding wire for surfacing applications.

SECTION II - HAZARDOUS INGREDIENTS

OSHA Hazardous Components (29 CFR 1910.1200) EXPOSURE LIMITS: 8 HR. TWA

		OSHA	PEL	ACGIH	TLV
Iron, Fe	CAS# 7439-89-6	10.0 mg/m ³		10.0 mg/m ³	
Manganese, Mn	CAS# 7439-96-5	1.0 mg/m ³		1.0 mg/m ³	
Silicon, Si	CAS# 7440-21-3	10.0 mg/m ³		10.0 mg/m ³	
Copper, Cu	CAS# 7440-50-8	1.0 mg/m ³		1.0 mg/m ³	Dust

SECTION III - HAZARDS IDENTIFICATIONS

EMERGENCY OVERVIEW: Dust and/or fumes irritating to eyes and respiratory tract. Can decompose at high temperatures forming toxic gases.

POTENTIAL HEALTH EFFECTS:

INHALATION: Dust and fumes moderately irritating to eyes and respiratory tracts. Prolonged or repeated inhalation may cause lung damage. Short term exposure may

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cause dizziness and nausea.

EYE CONTACT: Dust and fumes may cause eye irritation.

SKIN CONTACT: No hazard in normal industrial use

INGESTION: Irritating to mouth, throat and stomach.

CHRONIC: Prolonged or repeated inhalation may cause lung damage (siderosis) and effect the central nervous system (contains Manganese).

CARCINOGENICITY: Listed as non carcinogenic.

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SECTION IV - FIRST AID MEASURES

INHALATION: If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention if irritation persists. If exposed to fumes or vapors, flush eyes with large amounts of water for at least 15 minutes.

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.

SECTION V - FIRE FIGHTING MEASURES

Flashpoint (Method): Non-Flammable material.

Flammable Limits: Lower: NA Upper: NA

Auto ignition Temperature: NA

GENERAL HAZARD: Material will not burn. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

FIRE FIGHTING INSTRUCTIONS: As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

EXTINGUISHING MEDIA: Use dry sand or earth to smother fire.

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HAZARDOUS COMBUSTION PRODUCTS: Smoke, oxides of carbon, and metal alloys.

SECTION VI - ACCIDENTAL RELEASE MEASURES

LAND SPILL: Vacuum or sweep up material and place in a disposal container. Collect scrap for remelting. Do not flush into sewer.

WATER SPILL: Collect and place in chemical waste container for disposal. Do not flush to sewer.

SECTION VII - HANDLING AND STORAGE

Wash thoroughly after handling. Use only in a well ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Store in a cool dry place.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

PERSONAL PROTECTION: If TLV exceeded, NIOSH approved fume respirator recommended.

PROTECTIVE CLOTHING: Wear safety glasses with side shields (or goggles) and a face shield. When material is heated, wear gloves to protect against thermal burns.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	NA	Vapor Density (Air=1):	NA
Specific Gravity:	8.3	Evaporation Rate	
Solubility in Water:	Insoluble	(n-Butyl Acetate=1):	NA
pH:	NA	Freezing Point:	NA
Boiling Point:	Decomposes		
Appearance & Odor:	Solid wire. No odor.		

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SECTION X - STABILITY AND REACTIVITY

GENERAL: Stable

INCOMPATIBLE MATERIALS: Strong acids.

CONDITIONS TO AVOID: None.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI - TOXICOLOGICAL INFORMATION

No data available.

SECTION XII - ECOLOGICAL INFORMATION

No data available

SECTION XIII - DISPOSAL CONSIDERATIONS

Classification required before disposal. Follow all federal, state and local requirements.

SECTION XIV - TRANSPORTATION

SHIPPING NAME: ER70S6 Welding Wire

HAZARD CLASS: None

IDENTIFICATION NUMBER: None

DOT Emergency Guide #: None

Reportable Quantity (RQ): None

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SECTION XV - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act) All components are listed on the TSCA inventory.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act):

None. We recommend that you contact local authorities for other reporting requirements.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

311/312 Hazard Categories: Acute, Chronic

313 Reportable Ingredients: Manganese compounds (2%), Copper compounds (0.5%)

SECTION XVI - OTHER INFORMATION

Brazing rod or wire is a non-hazardous solid at ambient temperature. Hazards, as defined by OSHA 29 CFR 1910.1200, may result from fume or dust generated during brazing. The composition and quantity of both are dependent upon the metal being brazed and the procedures being used. Other conditions which influence the hazards associated with brazing include the filler material, the coatings on the metal, the number of people being exposed, and the quality of the ventilation. It is recommended that the composition of the fumes, gases, and dust to which the workers are exposed be classified by sampling the air in the worker's breathing zone and performing a hazard evaluation. See ANSI/AWS f1.1 available from the American Welding Society, P.O. Box 351040, Miami, FL 33135.

PREPARED BY: TALEM, Inc. - Technical Services Division (817) 335 - 1186

FOOTNOTES:

NA - Not Applicable NE - Data Not Established CS - Cancer Suspect Agent OX - Oxidizer ND - No Data Cor - Corrosive

CALC - Calculated EST - Estimated STEL - Short Term Exposure Limit TLV - Threshold Limit Value

PEL - Permissible Exposure Limit TWA - Time Weighted Average, 8 hours

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