

Wuhan Sunny Industry & Trade Co.,Ltd

Material Safety Data Sheet

For welding consumables and related products
Essentially similar to U.S Department of labor form OSHA-20

Section I - Identification

Manufacturer/Supplier name:	Wuhan Sunny Industry & Trade Co.,Ltd		
Address:	1282 jiefang avenue,Wuhan,China	Post code:	430010
Telephone number:	86-27-82726189		
Product type:	Mild & Low Alloy Steel Wire for GMAW, GTAW, SAW		
Trade name:	HBW70S-6,HBW80S-B2,HBW90S-B3,HBW12K		
AWS classification:	AWS ER70S-6,ER80S-B2,ER90S-B3,EM12K		

Section II - Hazardous components/Identity information

Components	CAS No.	TLV(mg/m3)
Aluminum	7429-90-5	5 (Welding Fume)
Carbon	7440-44-0	3.5 (Carbon Black)
Chromium	7440-47-3	0.5 (Metal)
		0.05 (Water Soluble Cr(VI))
		0.01 (Insoluble Cr(VI))
Copper	7440-50-8	0.2 (Fume)
Iron	7439-89-6	5 (Oxide Fume)
Manganese	7439-96-5	0.2 (Fume) C 5 (STEL)
Molybdenum	7439-98-7	5 (Soluble)
Nickel	7440-02-0	0.1 (Soluble)
Silicon	7440-21-3	10 (Dust)
Titanium	7440-32-6	10 (TiO2)
Vanadium	7440-62-2	0.05 (V2O5, Fume)
Zirconium	7440-67-7	5 (as Zr) 10 (STEL)

Section III - Physical/Chemical characteristics

Boiling point	N/A	Specific gravity(H2O=1)	N/A
Vapor pressure(mm Hg)	N/A	Melting point	N/A
Vapor density(AIR=1)	N/A	Evaporation rate(Butyl acetate=1)	N/A

Solubility in water: N/A

Odor and Appearance: Copper coated or bare, solid steel wire or rod, odorless.

Section IV - Fire and explosion hazard data

Flash point (method used)	N/A	Flammable limits N/A	LEL N/A	UEL N/A
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Extinguishing media: See below

Section VI - Health hazard data

Route(s) of entry: inhalation,skin,ingestion

Electric arc welding may create one of more of the following health hazards:

Arc Rays can injure eyes and burn skin Heat Rays (infrared radiation) from hot metal can injure eyes.

Electric Shock can Kill.

Noise can injure hearing.

Shielding gases such as Argon, Helium, & Carbon Dioxide are asphyxiants & adequate ventilation is required.

Carcinogenicity: Chromium, Nickel, Cobalt and their compounds are on the IARC & NPT lists as posing a carcinogenic risk to humans.

Fumes & Gases can be dangerous to your health. Common entry is by inhalation.

Signs and symptoms of exposure: see below

Medical conditions from exposure

Short term to welding fumes-dizziness nausea,dryness & irritation of nose,eyes and throat,chest tightness,fever,allergic reaction,long term-siderosis,believed to affect pulmonary function. Nickel and Chromium compounds are required by Osha to be considered carcinogenic.

Emergency and first aid procedures

Remove to fresh air,obtain medical attention. Employ first aid techniques recommended by AM.Red Cross.

Section VII - Precautions for safe handling and use

Spill and leak procedure: N/A

Waste and disposal method

Prevent waste from contaminating surrounding environment. Discard any product residue,disposable container or liner in environmentally acceptable manner. In full compliance with federal,state and local regulations.

Precautions to be taken in handling and storing: None

Other precautions

Use product in accordance with ANSI standard Z49.1,safety in welding and cutting available from AWS,550 NW. Lejnuie Rd,POX 351040,Miami,FL33135 Phone 305-443-9353

Section VIII - Control measures

Respiratory measures

Use respirable fume respirator or air supplier respirator when welding in a confined space or where local exhaust or ventilation does not keep the exposure below TLV. Where respiratory protection is necessary, NIOSH approved respiratory protection should be used. A NIOSH approved Type TC-21-C mask is recommended.

Ventilation

Use enough ventilation, local exhaust at the arc, or both to keep exposure within legal limits. In the worker's breathing zone and the general area, the fumes and gases must be kept the TLVs and the equivalent exposure must compute to less than one. Train welders to keep their heads out of the fumes.

Local exhaust ---
Mechanical(general) ---
Special ---
Other ---

Protective gloves: See other protective equipment

Eye protection

Wear helmet,face shield with filter lens,protective screens,flash goggles to shield others,start with shade too dark then go to lighter shade which gives sufficient view of weld zone.

Other protective equipment

Hand,head,body protection to prevent injury from radiation,sparks and electrical shock.

Work/Hygienic practices

Do not touch live electrical parts and insulate from work and ground. For maximum safety:

Be certified for, and wear a respirator at all times when welding or brazing.