

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:	Aluminum Wire for GMAW, GTAW	
Trade name:	HBW1100,HBW4043,HBW4047,HBW5183,HBW5356	
AWS classification:	AWS ER1100,ER4043,ER4047,ER5183,ER5356	

Section II - Hazardous components/Identity information

Components	CAS No.	TLV(mg/m3)
Aluminum (Al)	7429-90-5	10 (dust) 5 (Resp)
Chromium (Cr)	7440-47-3	0.5 (metal)
Copper (Cu)	7440-50-8	1 (dust) 0.2 (fume)
Iron (Fe) (limits as oxide fume)	7439-89-6	5
Magnesium (Mg)	7439-95-4	10
Manganese (Mn) (limits as fume)	7439-96-5	0.2
Silicon (Si)	7440-21-3	10
Beryllium (Be)	7440-41-7	0.002 (TWA)
Titanium (Ti) Oxide dust	7440-32-6	10
Vanadium (V) Respirable dust	7440-62-2	0.5 as V2O5
Zinc (Zn) Fume	7440-66-6	5

Section III - Physical/Chemical characteristics

Boiling point	N/A	Specific gravity(H2O=1)	N/A
Vapor pressure(mm Hg)	N/A		
Vapor density(AIR=1)	N/A	Evaporation rate(Butyl acetate=1)	N/A
Solubility in water	N/A		
Odor and Appearance: solid aluminum 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
Extinguishing media	See below			
Special fire fighting procedures	See below			

Nonflammable, however welding arcs and sparks can ignite combustible and flammable products.

Ref. Z49.1, NFPA 51B. Only the packaging material will burn.

Section V - Reactivity data

Stability	Unstable	No	Conditions to avoid
	Stable	Yes	None unless otherwise specified

Incompatibility (Metals to avoid) None

Hazardous decomposition products

This product with normal and proper storage will be stable. During welding, Brazing and processing may form fumes, dust and gas decomposition. Avoid extreme temperatures and incompatible materials such as some of the flowing; Strong Acids, strong bases, strong oxidizers, metal oxides, alcohols, hydrocarbons and halogens. As always welding items shall be stored in a cool low humid location and kept dry. During all operations do not eat or drink while handling and ensure proper ventilation when welding, brazing or processing. Ensure that all Federal Occupational Safety and Health guidelines are followed as well as well as your company's safety guidelines. Read and understand ANSI Z49.1. As always welding items shall be stored in a cool low humid location and kept dry. During all operations do not eat or drink while handling and ensure proper ventilation when welding, brazing or processing. Ensure that all Federal Occupational Safety and Health guidelines are followed as well as well as your Company's safety guidelines. Read and understand ANSI Z49.1.

Section VI - Health hazard data

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

Emergency Overview - product as shipped consists of a solid silvery metallic wire or rods which are non-reactive, nonflammable and has no immediate health hazard. In fire product can produce metal oxides fumes and personal protective equipment may be required. INHALATION may be the most common cause of overexposure due to the welding fumes. Large amounts of welding fumes will cause irritation of the nose, eyes and skin 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. Lejnue 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.