

# MATERIAL SAFETY DATA SHEET (MSDS)

TUNGSTEN HEAVY ALLOY (WHA)

CAS #: 7440-33-7 (Tungsten)
Manufacturer: Chinatungsten Manufacturer: Chinatungsten Online (Xiamen) Manu. & Sales Corp.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family: Refractory metal alloy.

			Cir	-0-		_
Grade		1	2	31116	4	
Tungsten Content (%)		90	92.5	95	97	
Density(g/cm3)		16.85~17.25	17.15~17.85	17.75~18.35	18.25~18.35	
Hardness(HRC, max)		32	33	34	35	
UTS	ksi	110	110	105	100	
	Мра	758	758	724	689	202
Yield Strength	ksi	75	75	75	75	200
(0.2%)	Мра	517	517	517	517	s ctelling
Elongation (%)		5	5	3	2	1185
SECTION 3: HAZ		200		" as used wi	thin this MSD	should be

### **SECTION 3: HAZARDS IDENTIFICATION**

The terms "hazardous" and "hazardous materials" as used within this MSDS should be interpreted as by, and in accordance with, the OSHA Hazard Communication Standard (29CFR1910.1200) including cited appendices, lists, references, etc.

# Primary Routes of Entry

No specific data, testing, or information has been found for the chemical compounds that comprise these products. However, general comments for individual elements are below.

Tungsten (W)

Industrially this element does not constitute an important health hazard.

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Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

Skin Contact

If the chemical got onto the clothed portion of the body, please remove the contaminated clothes as quickly as possible to protect your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. If irritation persists, seek medical attention. Wash contaminated clothing before reusing

Serious Skin Contact

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

### Inhalation

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

### **Serious Inhalation**

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Warning: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

# Ingestion

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the attention. WWW.chinatur viction is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical

# **Serious Ingestion**

Not available.

## Other

In the event of wound contamination with nickel, the wound should be promptly and thoroughly cleaned. All contaminated wounds should be thoroughly cleaned.

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inatungsten.com May be combustible at high temperature.

**Auto-Ignition Temperature** 

Not available.

Flammable Points

Not available.

Flammable Limits

Not available.

**Products of Combustion** 

Some metallic oxides.

chinatungsten.com Fire Hazards in Presence of Various Substances

Not available.

Risks of Explosion of the Product in Presence of Static Discharge
Not available.

Fire Fighting Media and Instruction:

SMALL FIRE: Use DBY
ISB WET ی MALL FIRE: use water jet.

**Special Remarks on Fire Hazards** 

Material in powder form, capable of creating a dust explosion.

**Special Remarks on Explosion Hazards** 

Not available.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

If material is released If material is released or spilled, ventilate the area of the spill. Clean up using methods which avoid the generation of dusts. Such methods include wet mopping or vacuuming (assuring that the vacuum is equipped with the proper filter to prevent airborne dust levels which exceed the PEL or TLV). If airborne dust is generated, use the appropriated NIOSH approved respiratory protection.

SECTION 7: HANDLING & STORAGE

Tungsten alloys are, in general, safe materials to handle and use under almost all commonly encountered environments. Special precautions typically only apply in situations where the alloy is present as a fine powder or when operations such as machining create dust or soluble by-products. Maintain good housekeeping procedures to prevent the accumulation of dust and the generation of airborne dust particles. Avoid dust inhalation and direct contact with the dust. Wash hands thoroughly before eating or smoking. Wash exposed skin at the end of the work shift. Periodic medical examinations are recommended for individuals regularly exposed to dust or mists.

# SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

Use an appropriate NIOSH approved respirator if airborne dust concentrations exceed the appropriate PEL or TLV. All requirements set forth in 29CFR1910.134 must be mot

### **Protective Gloves**

Protective gloves or barrier creams are recommended when contact with dust or mist is likely. Wash thoroughly prior to applying barrier creams or using protective gloves.

levels which do not exceed the appropriate PEL or TLV. If such equipment is not available, use respiratory protection as specified above. www.chinatu

## **Eye Protection**

Goggles or safety glasses with side shields are recommended.

# Other Equipment

Full body protective clothing is advisable if contact with dust, mist, or fumes are expected. Work clothing should be changed daily if it is suspected that the clothing is contaminated.

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Evaporation rate: N/A
Solubility in water: Insoluble
Specific gravity (H 2 O=1): 16 Molecular weight

% volatile by volume: N/A

Appearance: Gray, tin-white metal, high copper containing alloys will have a copper sheen.

Odor: None

**SECTION 10: STABILITY AND REACTIVITY** 

# Incompatibilities

chinatungsten. Contact of dust with strong oxidizers may cause fire or explosion. Avoid strong acids. www.chinatungsten.com Extremely fine powders may by pyrophoric under some conditions.

# Stability

These products are stable.

## **Hazardous Decomposition Products**

None

Hazardous Polymerization

None

Tungsten compounds are considered somewhat toxic. However, the element itself does not constitute an important health hazard. Exposure is related primarily to any dust feeding of 2%, 5%, and 10% of dist s marked effect upon the growth of rats, as measured in terms of weight gain. Heavy exposure to the dust or the ingestion of large amounts of soluble compounds produces about body weight, behavior, blood cells challed. natungster animals.

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Products of Biodegradation
Possibly hazardous short
degradation pro Possibly hazardous short term degradation products are not likely. However, long term Section 13: DISPOSAL COME.



federal regulations. Material intended for disposal may be sold for scrap for reclaim. Tungsten scrap, dust, and recovered fume have value. www.chinatung

# **SECTION 14: TRANSPORT INFORMATION**

# **DOT** Classification

CLASS 8: Corrosive solid.

### Identification

Metal powder, flammable, n.o.s. (Tungsten powder): UN3089 PG: III

# **Special Provisions for Transport**

Not available.

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SECTION 15: THE SUPPLIER'S INFORMATION

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### **SECTION 16: EMERGENCY INFORMATION**

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