

Material Safety Data Sheet

CHEMICAL NAME:

Ferro tungsten (FeW)

CAS(Chemical Abstract Service) NO.: 7440-33-7

Trade Name and Synonyms: Ferro tungsten (FeW) metal, ferro tungsten particles, ferro tungsten, FeW, lump, pieces, granules, powder, particles.

Chemical Family: Ferro Alloy**Molecular Weight:** N/A

PHYSICAL DATA

Appearance and Odor: Gray Metal/No Odor**Boiling Point:** 3380°C**Specific Gravity (H2O=1):** N/A**Vapor Pressure (mm Hg):** N/A**Percentage Volatile by Volume:** 0**Vapor Density (Air=1):** N/A**Evaporation Rate:** N/A**Solubility in Water:** Insoluble**How Best Monitored:** Air Sample

Application: For making high speed cutting tools, special steel etc, also used to make electrical instruments and optical instruments.

CHEMICAL COMPOSITION %

Material	% by Weight	Material	% by Weight
W	70%-80%	Fe	20-24%
Si	Below 1.2%	Other elements	Below 0.1%

HAZARDOUS INGREDIENTS:

None.

HEALTH HAZARD DATA

Routes of Exposure: Production and applying process might bring about dust of potentially hazardous ingredients, which can be inhaled, swallowed or come in contact with the skin or eyes.

Effects of Overexposure:

Inhalation - Dust from grinding can cause irritation of the nose and throat. It has also has the potential for causing transient or permanent respiratory disease, including occupational asthma and interstitial fibrosis, in a small percentage of exposed individuals. It is reported that cobalt dust is the most probable cause of such respiratory diseases. Symptoms include productive cough, wheezing, shortness of breath, chest-tightness and weight loss. Interstitial fibrosis (lung scarring) can lead to permanent disability or death. Certain pulmonary conditions may be aggravated by exposure.

Skin Contact –Can cause irritation or an allergic skin rash due to special sensitization in case tungsten be used in production process. Certain skin conditions, such as dry skin, may be aggravated by exposure.

Eye Contact - Can cause irritation.

Ingestion - Reports outside the industry suggest that ingestion of significant amounts of ferro tungsten powder has the potential for causing blood, heart and other organ problems.

EMERGENCY AND FIRST AID PROCEDURES

Applicable for dusts or mists.

Inhalation - If symptoms of pulmonary involvement develop (coughing, wheezing, shortness of breath, etc.), remove from exposure and seek medical attention.

Skin Contact - If irritation or rash occurs, thoroughly wash affected area with soap and water and isolate from exposure. If irritation or rash persists, seek medical attention.

Eye Contact - If irritation occurs, flush with copious amounts of water. If irritation persists, seek medical attention.

Ingestion - If substantial quantities are swallowed, dilute with a large amount of water, induce vomiting and seek medical attention.

Carcinogenic Assessment (NTP Annual Report, IARC Monographs, other):

None of the components of this material have been identified as known suspected carcinogens by NTP, IARC or OSHA

Chemical Name:

Tungsten and tungsten material, ferro tungsten, tungsten ferro alloy.

FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A Test Method Used: --- Flammable Limits: N/A LEL:--- UEL: ---

Tungsten Particles, High Density Alloy and Hard Cemented Carbide Product are not fire hazards. Dusts generated grinding operations may ignite if allowed to accumulate and subjected to an ultra-high temperature ignition source.

Extinguishing Media:

For powder, smother with dry sand, dry dolomite, ABC type fire extinguisher, or flood with water.

Special Fire Fighting Procedures:

Not inflammable.

Unusual Fire and Explosion Hazards:

During production process, dusts may present a fire or explosion hazard under rare favoring conditions of particle size, dispersion and ultra-high temperature ignition source. However, this is not expected to be a problem under normal packaging and dust-proof handling conditions.

REACTIVITY DATA

Stability:	Unstable		Conditions to Avoid: N/A
	Stable	X	
Incompatibility: None.			
Materials to Avoid: None.			
Hazardous Decomposition Products: None			
Hazardous Polymerization:	May Occur		Conditions to Avoid: N/A
	Will not Occur	X	

SPILL OR LEAKS PROCEDURES

Steps to be Taken In Case Material is Released: No special treatment is required.

Waste Disposal Method: Dispose of in accordance with appropriate government regulations. May be sold as scrap for reclaim.

SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use an appropriate NIOSH approved respirator if airborne dust concentrations exceed the appropriate PEL or TLV. All appropriate requirements set forth in 29 CFR 1910.134 should be met.

Ventilation: Use local exhaust ventilation which is adequate to limit personal exposure to airborne dust to levels which do not exceed the PEL or TLV. If such equipment is not available, use respirators as specified above.

Protection Gloves: Protective gloves or barrier cream are recommended when contact with dust or mist is likely. Prior to applying the barrier cream or use of protective gloves, wash thoroughly.

Eye Protection: Safety glasses with side shields or goggles are recommended.

Other Protective Equipment: N/A

DISPOSAL CONSIDERATION

Before disposal shall refer to the relevant regulations of the state and local. If possible, use recovery

TRANSPORTATION

The packing should be complete departure and loading shall be careful, it shall be ensure that containers not leak in the process of transport. Don't collapse, don't fall. With no oxidant, halogen, edible chemicals, etc must be eliminated. Transit should prevent insolate, rain, the high temperature. The transportation vehicles should be thoroughly raked.

PRECAUTIONS TO BE TAKEN IN HANDING AND STORAGE

Maintain good housekeeping procedures to prevent dust accumulation during grinding. Avoid dust inhalation and direct skin contact with dust.

Other Precautions: Clean up using methods which avoid dust generation such as vacuum (with appropriate filter to prevent airborne dust levels which exceed the PEL or TLV), wet dust mop or wet clean-up. If airborne dust is generated, use an appropriate NIOSH approved respirator.

Wash hands thoroughly after handling, before eating or smoking. Wash exposed skin at the end of the work shift.

Do not shake clothing, rags or other items to remove dust. Dust should be removed by washing or vacuuming (with appropriate filters) the clothing, rags, or other items.

Periodic medical examinations are recommended for individuals regularly exposed to dust or mist.

REGULATORY INFORMATION

Dangerous chemicals safety management regulations (February 17, 1987 promulgated by the state council), dangerous chemicals detailed rules for the implementation of the safety management regulations (change labor is sent [1992] 677), workplace safety use chemicals rules (labor department is sent [1996] no. 423), and other laws and regulations for the safe use of hazardous chemicals, production, storage, transportation, loading and unloading, etc, in the corresponding provisions; In the air of workplace tungsten health standard (GB 16229-1996), Limit the air of workplace of the maximum allowed the material concentration and test methods.

EMERGENCY CONTACT INFORMATION

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