Revision Date: 6/2/15

## 1. Chemical Product & Company Information

Product: TUNGSTEN POWDER

Types Covered: C5, C6, C8, C10, C20, C40, C60, C62, C80, C100, C110, C115,

C120, C130, GW

**Buffalo Tungsten Inc** 

2 Main St

Depew, NY 14043 Tel: 716-683-9170 Fax: 716-683-0471

## 2. Hazard Identification

## **Emergency Overview**

No spill hazard, minimal health risk



#### HAZARD STATEMENT

Causes respiratory tract, eye and skin irritation

#### PRECAUTIONARY MEASURES

Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product. Keep container closed, use protective equipment as required and wash thoroughly after handling.

#### POTENTIAL HEALTH EFFECTS

EYES: Irritation possible SKIN: Irritation possible



INHALATION: None

INGESTION: Gastrointestinal irritation possible

MEDICAL CONDITIONS AGGRAVATED: Exposure to tungsten dust or fume may aggravate

chronic respiratory disease

CHRONIC OVEREXPOSURE: Not known ACUTE: OVERXPOSURE: Not known

CARCINOGENICITY: None

#### 3. Composition Data

Component	CAS No	EINCES No	STEL (mg/m <sup>3</sup> )	$\underline{TWA (mg/m^3)}$	Typical Weight %
Tungsten	7440-33-7	231-143-9	10	5	99.9

#### 4. First Aid Measures

EYES: Flush with large amounts of water for 15 minutes. If irritation occurs, seek medical

attention.

SKIN: Wash with soap and water. If irritation occurs, seek medical attention.

INHALTION: Remove from exposure. If necessary aid breathing and seek medical attention. INGESTION: If large amounts are ingested, consume large quantities of water and induce

vomiting. Seek medical attention.

#### 5. Fire Fighting Measures

FLAMMABLE PROPERTIES: Non-flammable

FLASH POINT: N/A

FLAMMABLE LIMITS (% Vol in Air):

Lower: none Upper: none AUTO-IGNITION TEMPERATURE: N/A

HAZARDOUS COMBUSTION PRODUCTS: When tungsten burns in air it forms tungsten

trioxide, which sublimes above 750°C (1382°F) EXTINGUISHING MEDIA: Dry powder

FIREFIGHTING INSTRUTIONS: Wear a self contained breathing apparatus and place material in non-flammable container. Under abnormal conditions, tungsten may present a fire hazard depending upon particle size, dispersion and exposure to an ignition source. This is not expected under normal conditions. Tungsten powder, particularly powder less than 1 micron (FSSS) can oxidize in air by friction during blending, milling or similar process. Ultra fine powders may oxidize spontaneously in air.

#### 6. Accidental Release Measures

SMALL/LARGE SPILL: Avoid dust generation. Provide adequate ventilation and use approved respirators. Vacuum or wet clean up methods are recommended to reduce dust generation. Use an approved filter when vacuuming.

#### 7. Handling and Storage

HANDLING: Maintain good housekeeping practices to prevent dust accumulation. STORAGE: Keep container closed.

2

#### 8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS: General and local ventilation is recommended

RESPIRATORY PROTECTION: A NOISH-approved respirator is required if TLV is exceeded

SKIN AND HAND PROTECTION: Protective gloves are recommended EYE AND FACE PROTECTION: Safety glasses are recommended OTHER PROTECTIVE EQUIPMENT: None under normal conditions

#### 9. Physical and Chemical Properties

APPEARANCE: Gray to dark gray powder BOILING POINT: 5900°C (10652°F) MELTING POINT: 3410°C (6170°F)

VAPOR PRESSURE: N/A VAPOR DENSITY: N/A

SOLUBILITY IN WATER: Insoluble

DENSITY: 19.3 g/cc

PH: N/A ODOR: none

PERCENT VOLATILES: <0.1% EVAPORATION RATE: N/A

#### 10. Stability and Reactivity

CHEMICAL STABILITY: Stable

INCOMPATABILITY: Tungsten is slightly soluble in nitric acid, sulfuric acid and aqua regia. It is soluble in a mixture of HF acid and nitric acid. Vigorous reaction with bromine trifluoride. Tungsten becomes incandescent in cold fluorine, lead oxide and iodine pentafluoride. Avoid oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: none

#### 11. Toxicological Information

None

#### 12. Ecological Information

None

## 13. Disposal Consideration

Dispose of the material in accordance with all government regulations. Material can be sold for reclaim.

#### 14. Transportation Information

HAZARD CLASS: None



# 15. Regulatory Information

#### US FEDERAL REGULATIONS

TSCA STATUS: Listed on Toxic Substance Control Inventory

CERCLA REPORTABLE QUANTITY: none

SARA TITLE III: Section 311/312 Hazardous Categories- Acute, Chronic

RCRA STATUS: not regulated

# INTERNATIONAL REGULATIONS CANADIAN WHMIS: not regulated

#### **RISK/SAFETY PHRASES**

22 Do not breathe dust

33 Take precautionary measures against static discharges

## 16. Other Information

HMIS HAZARD RATING: Heath=1, Fire = 0, Reactivity = 0