MATERIAL SAFETY DATA SHEET (MSDS)

MSDS for Ammonium Paratungstate

1. IDENTIFICATION
Product Name: Ammonium Paratungstate
CAS#: 11120-25-5
Chemical Formula: (NH₄)₁₀-W₁₂-O₄₁.xH₂O
Manufacturer: Chinatungsten Online (Xiamen) Manu. & Sales Corp.

2. HAZARDS DATA
Primary routes of entry: Inhalation, ingestion, skin or eye contact (for dusts, mists, powder and fume)
Health hazards: low toxicity. Irritate to eyes and skin. Tungsten smelting workers systemic weakness, fever, measles like rash, proteinuria, and inhaled the tungsten smelting.
Environmental hazards: harmful to the environment.
Explosion hazard: non combustible, no special burning characteristics.

3. FIRST AID MEASURES
Eye contact: If irritation occurs, flush with large amounts of water for at least 15 minutes. If irritation persists, seek medical attention.
Skin contact: Wash with soap and water. If irritation or rash occurs, isolate from exposure. If rash persists, seek medical attention.
Inhalation: If large amounts of dust are inhaled, move the exposed person to fresh air. If necessary, perform artificial respiration and seek medical attention.
Ingestion: If ingested, get medical attention. Give large quantities of water and induce vomiting. Seek medical attention.

4. FIRE FIGHTING MEASURES
Hazardous characteristics: a violent reaction with halogen compounds such as five bromine fluoride, three chlorine fluoride.
Fire extinguishing method: This product does not burn. According to the cause of the fire, select the appropriate fire extinguishing agent.
Fire precautions and measures: fire fighters have to wear full body fire protective clothing, in the upper hand to fire. When the fire as far as possible the containers from fire to open.

5. HANDLING AND STORAGE
Operating notes: airtight operation, partial discharge. Prevent dust from releasing into the air of the workshop. Operator must undergo special training, strictly comply with the operating procedures. Recommend the operator to wear self absorption filter dust masks, chemical safety glasses, rubber acid and alkali resistant clothing and rubber
gloves. Avoid producing dust. Avoid contact with five fluorinated bromine, three chlorine fluoride. Emergency handling equipment equipped with leakage. Empty containers may contain harmful substances.

Storage note: store in a cool, ventilated warehouse. Away from the fire, heat source. Keep out of direct sunlight. Should be stored separately with the five fluorinated bromine, three fluoride chlorine, avoid by all means. The storage area should be equipped with appropriate material containing leakage.

6. EXPOSURE CONTROLS, PERSONAL PROTECTION
Monitoring methods: potassium thiocyanate spectrophotometric method.
Engineering control: closed operation, local exhaust.
Respiratory protection: dust concentration in the air exceeds the standard, you must wear a filter type dust respirator. Emergency rescue or evacuation, should wear air breathing apparatus.
Eye protection: wear chemical safety goggles.
Body protection: wear rubber acid and alkali resistant clothing.
Hand protection: wear rubber gloves.
Other protection: No smoking, eating and drinking water. Wash their hands before meals. Work finished, shower and change. Maintain good hygiene practices.

7. PHYSICAL AND CHEMICAL PROPERTIES
Physical state and appearance: white crystalline powder.
\( \text{pH (1% soln/water)}: \) Not available.
Critical Temperature: Not available.
Specific Gravity: 7.16 (Water = 1)
Vapor Pressure: Not applicable.
Vapor Density: Not available.
Volatile: Not available.
Solubility: insoluble in water, soluble in alkali, slightly soluble in acid.
Main uses: used in the preparation of tungsten and its compounds.

8. STABILITY AND REACTIVITY
Stability: stability
Forbidden complex: five fluorinated bromine, three chlorine fluoride.
Polymerization hazard: no polymerization
Decomposition products: harmful toxic gases.

9. TOXICOLOGICAL INFORMATION
LD\(_{50}\): rat oral LD\(_{50}\) (mg/kg): 1059
10. DISPOSAL
Nature of waste: industrial solid waste, waste
Waste disposal methods: Disposal by incineration. Reuse containers in places where it
can be used or buried in a specified site.
Waste matters needing attention: prior to the disposal of the state and local regulations
should be referred to the relevant regulations.

11. TRANSPORTATION INFORMATION
Transport note: shipment to complete the packing, loading should be safe. To ensure
that the container does not leak, do not fall, do not fall, do not damage. With no halide,
halide, edible chemicals, such as mixed transport. Transportation should prevent
direct-sun exposure, rain, high temperature resistant. Vehicle transport should be
thoroughly cleaned. Road transport should be in accordance with the provisions of the
road.

12. REGULATORY INFORMATION
The following laws and regulations and standards for the safe use of chemicals, storage,
transportation, loading and unloading, classification and marking and other aspects
have made the corresponding provisions:
People’s Republic of China production safety law (by June 29, 2002 ninth
twenty-eighth meeting of the NPC Standing Committee);
People’s Republic of China occupation disease prevention law (by October 27, 2001
ninth twenty-fourth meeting of the NPC Standing Committee);
People’s Republic of China Environmental Protection Act (December 26, 1989 seventh
session of the Standing Committee of the Eleventh National People’s Congress
adopted);
Workplace harmful factors occupational exposure limits (2-2002 GBZ).

13. THE SUPPLIER’S INFORMATION
Supplier’s Name: Chinatungsten Online (Xiamen) Manu. & Sales Corp.
Supplier’s Address: 3F, No.25 WH RD, Xiamen Software Park II, Fujian, 361008 China
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Supplier’s Fax: +86 5925129797
Supplier’s E-mail: info@chinatungsten.com
Supplier’s Website: www.chinatungsten.com

14. EMERGENCY INFORMATION
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