MATERIAL SAFETY DATA SHEET (MSDS)

AMMONIUM PARATUNGSTATE (APT)

SECTION 1 : PRODUCT IDENTIFICATION

- **Product Name:** Ammonium Paratungstate
- **Chemical Formula:** H42N10O42W12
- **CAS No:** 11120-25-5
- **Recommended Use:** Source of tungsten; catalyst; chemical intermediate

SECTION 2 : HAZARDS IDENTIFICATION

- **Classification (GHS):** Flammable liquids; Acute toxicity, Oral; Skin irritation; Eye irritation.
- **Signal Word:** Warning
- **Hazard Statements:**
  - Causes skin irritation and serious eye irritation
  - Harmful if swallowed
  - Combustible liquid
  - Keep away from heat/sparks/open flames. No smoking
  - Wear protective gloves/eye protection
  - **IF ON SKIN or IN EYES:** Rinse cautiously with water; seek medical advice if irritation persists

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

- **Concentration:** 98–99%

SECTION 4 : FIRST AID MEASURES

- **Inhalation:** Remove to fresh air. If symptoms develop, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical advice if feeling unwell.

Email
rahul@samarthmetachem.com

Phone
+91 99045 16938 | +91 95123 33045

Address
501, Shilp Zaveri, Nr. Shyamal Cross Road,
Nehru Nagar, Ahmedabad · 380015, Gujarat
Web: www.samarthmetachem.com

SECTION 5 : FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide water spray.
- **Specific Hazards:** Combustible liquid; emits toxic fumes of carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6 : Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Avoid breathing vapors. Ensure adequate ventilation. Eliminate ignition sources.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Absorb with inert material. Collect in suitable container for disposal.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors and contact with skin/eyes. Use with adequate ventilation. Keep away from ignition sources.
- **Storage:** Keep container tightly closed. Store in a cool, dry, well-ventilated place away from heat and oxidizing agents.

Section 8 : Exposure Controls / Personal Protection

- **Exposure Limits:** ACGIH TLV 50 ppm 205 mg/m³ TWA; OSHA PEL not established.
- **Engineering Controls:** Provide adequate ventilation and local exhaust if needed.
- **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing. Respirator if ventilation is inadequate.

Section 9 : Physical and Chemical Properties

- **Appearance:** White powder
- **Boiling Point:** 700 °C
- **Flash Point:** 200 °C
- **Solubility:** Soluble in water
- **Molecular Weight:** 3060 g/mol

Email
rahul@samarthmetachem.com

Phone
+91 99045 16938 | +91 95123 33045

Address
501, Shilp Zaveri, Nr. Shyamal Cross Road,
Nehru Nagar, Ahmedabad · 380015, Gujarat
Web: www.samarthmetachem.com

Section 10 : Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

Section 11 : Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Harmful if swallowed; causes skin and eye irritation; may cause respiratory irritation.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis and liver/kidney effects.

Section 12 : Ecological Information

- **Ecotoxicity:** May be harmful to aquatic life in high concentrations.
- **Persistence and Degradability:** Expected to be biodegrade
- able.
- **Bioaccumulative Potential:** Low to moderate potential.

Section 13 : Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations. Do not release into the environment.

Section 14: Transport Information

- **UN Number:** UN 3260
- **Hazard Class:** 6.1
- **Packing Group:** III
- **Proper Shipping Name:** Ammonium Paratungstate

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories.
- Classified as hazardous substance as per GHS.

Email
rahul@samarthmetachem.com

Phone
+91 99045 16938 | +91 95123 33045

Address
501, Shilp Zaveri, Nr. Shyamal Cross Road,
Nehru Nagar, Ahmedabad · 380015, Gujarat
Web: www.samarthmetachem.com

Section 16: Other Information

- **Disclaimer:** The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use.
- Samarth Metachem Pvt. Ltd. disclaims any liability for damage resulting from handling or contact.

Email
rahul@samarthmetachem.com

Phone
+91 99045 16938 | +91 95123 33045

Address
501, Shilp Zaveri, Nr. Shyamal Cross Road,
Nehru Nagar, Ahmedabad · 380015, Gujarat
Web: www.samarthmetachem.com