

# MATERIAL SAFETY DATA SHEET

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## SECTION 1 Product Identification

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**CHEMICAL NAME:** Ammonium tetrathiotungstate (VI)

**CAS #:** 13862-78-7

**FORMULA:** (NH<sub>4</sub>)<sub>2</sub>WS<sub>4</sub>

**SYNONYM:** Ammonium thiotungstate (VI)

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## SECTION 2 Composition and Information on Ingredients

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INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	13862-78-7	100	1g/m <sup>3</sup> (as W-soluble)	no data

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## SECTION 3 Hazards Identification

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**EMERGENCY OVERVIEW:** Dust is irritating to eyes, skin and respiratory tract. May be harmful if swallowed.

**PRIMARY ROUTES OF EXPOSURE:** Ingestion, Inhalation of dust.

**EYE CONTACT:** Irritating to eyes. May cause redness and pain.

**SKIN CONTACT:** Mildly irritating to skin. May cause itching and redness.

**INHALATION:** Inhalation of dust can lead to irritation of the respiratory tract, causing coughing and sore throat.

**INGESTION:** No information on the physiological effects of ingestion.

**CHRONIC HEALTH EFFECTS:** No information available on long-term chronic effects.

**ACUTE HEALTH EFFECTS:** Irritating to skin, eyes and respiratory tract.

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## SECTION 4 First Aid Measures

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**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

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## **SECTION 5                      Firefighting Measures**

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**FLASH POINT:** not applicable

**AUTO IGNITION TEMPERATURE:** none

**EXPLOSION LIMITS:** none

**EXTINGUISHING MEDIUM:** None. Material is non-combustible

**SPECIAL FIREFIGHTING PROCEDURES:** If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** If involved in a fire, choking fumes of sulfur dioxide may form.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** No unusual fire or explosion hazards.

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## **SECTION 6                      Accidental Release Measures**

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**SPILL AND LEAK PROCEDURES:** Small spills can be mixed with powdered sodium carbonate or ground limestone and swept up.

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## **SECTION 7                      Handling and Storage**

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**HANDLING AND STORAGE:** Store material in a tightly sealed container in a cool, dry place.

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## **SECTION 8                      Exposure Controls and Personal Protection**

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**EYE PROTECTION:** Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

**SKIN PROTECTION:** Chemical-resistant.

**VENTILATION:** If possible, handle the material in an efficient fume hood.

**RESPIRATOR:** If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

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## **SECTION 9                      Physical and Chemical Properties**

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**COLOR AND FORM:** yellow to orange xtl.

**MOLECULAR WEIGHT:** 348.18

**MELTING POINT (DEG. C.):** none

**BOILING POINT:** no data

**VAPOR PRESSURE:** not applicable

**SPECIFIC GRAVITY:** no data

**SOLUBILITY IN WATER:** soluble

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## **SECTION 10                    Stability and Reactivity**

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**STABILITY:** air and moisture stable

**HAZARDOUS POLYMERIZATION:** no hazardous polymerization

**CONDITIONS TO AVOID:** reaction with mineral acids

**INCOMPATIBILITY:** strong oxidizing agents and mineral acids

**DECOMPOSITION PRODUCTS:** ammonia, nitrogen oxides, sulfur dioxide and tungsten compounds.

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## **SECTION 11 Toxicological Information**

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**RTECS DATA:** No information available in the RTECS files.

**MUTAGENIC EFFECTS:** no data

**TETRATOGENIC EFFECTS:** no data

**CARCINOGENIC EFFECTS:** no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

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## **SECTION 12 Ecological Information**

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**ECOLOGICAL INFORMATION:** No information available

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## **SECTION 13 Disposal Considerations**

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**DISPOSAL:** Dispose of in according to local state and federal regulations.

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## **SECTION 14 Transportation Information**

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Non-hazardous

Non-hazardous

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## **SECTION 15 Regulatory Information**

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**TSCA:** Not listed in the TSCA inventory

**SARA (TITLE 313):** Title compound not listed

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## **SECTION 16 Other Information**

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**DATE PREPARED:** 3/06