

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Tantalum (V) methoxide
CAS #: 865-35-0
FORMULA: Ta(OCH₃)₅
SYNONYM: tantalum methylate; methanol, tantalum salt.

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	865 -35-0	100	no data	no data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Irritating to skin, eyes and respiratory tract.
PRIMARY ROUTES OF EXPOSURE: Inhalation, ingestion, contact with skin and eyes.
EYE CONTACT: Causes severe irritation of the eyes. Delayed blindness may occur through atrophy of the optic nerve.
SKIN CONTACT: Dehydrating agent. Liquid causes mild irritation of the skin.
INHALATION: Methanol vapor is irritating to the respiratory tract and cause headache, dizziness, coma, and blindness.
INGESTION: Ingestion may cause nausea, vomiting, headache, coma and death.
CHRONIC HEALTH EFFECTS: Rapid hydrolysis on human contact produces methanol, which is metabolized slowly to formaldehyde. Gradual atrophy of the optic nerve may occur producing blindness.
ACUTE HEALTH EFFECTS: Methanol may irritate the skin, eyes and respiratory tract, cause blurred vision, blindness, intoxication dizziness, headache, nausea, coma and death.

SECTION 4 First Aid Measures

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.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable

AUTO IGNITION TEMPERATURE: no data

EXPLOSION LIMITS: no data

EXTINGUISHING MEDIUM: carbon dioxide, dry powder or foam

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 this material may emit toxic organic fumes and tantalum oxide dust.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Highly flammable. Formation of explosive air/dust mixtures is possible.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Eliminate all ignition sources. Avoid contact with water. Small spills may be adsorbed into diatomaceous earth, sand, or other suitable adsorbent, and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container in a dry place. If container is left open, product may adsorb moisture from the atmosphere and release methanol vapors.

SECTION 8 Exposure Controls and Personal Protection

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.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: white powder

MOLECULAR WEIGHT: 336.12

MELTING POINT (DEG. C.): no data

BOILING POINT: 189^o/10 mm

VAPOR PRESSURE: no data

SPECIFIC GRAVITY: no data

SOLUBILITY IN WATER: reacts with water

SECTION 10 Stability and Reactivity

STABILITY: moisture sensitive solid

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: Keep away from moisture, heat and ignition sources including open flame and electrostatic discharge.

INCOMPATIBILITY: oxidizing agents and halogens

DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, organic vapors, and metal oxides and carbonates.

SECTION 11 Toxicological Information

RTECS DATA: No information available in the RTECS files for title compound. Methanol: eye (rbt) draize: moderate; oral (human) TDLo: 3571 ul/kg; oral (human) TDLo: 9450 ul/kg; oral (human) LDLo: 6422 mg/kg; oral (human) LDLo: 428 mg/kg; inhalation (human) TCLo: 86000 mg/m³; inhalation (human) TCLo: 300 ppm; inhalation (rat) LC50: 64000 ppm/4h.

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.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

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

SECTION 14 Transportation Information

Flammable solids, inorganic, n.o.s., Class 4.1, UN 3178, PG II

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound not listed

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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