



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Tantalum (V) Methoxide**
PRODUCT NUMBER: 3424
CAS NUMBER: 865-35-0
SYNONYMS: Tantalum methylete; methanol, tantalum salt.
MANUFACTURER:

Prochem, Inc.
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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H228	Flammable solid
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces- No smoking
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/lighting equipment
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P403+P233	Store in a well-ventilated place.
P501	Dispose of contents/container to an approved waste disposal plant.

HMIS CLASSIFICATION:

Health: 2 Fire: 0 Reactivity Hazard: 3

NFPA RATING:

Health: 2 Flammability: 0 Reactivity Hazard: 3

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 causes headache, dizziness, coma, and blindness.

INGESTION: Ingestion may cause nausea, vomiting, headache, coma, and death.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Ta(OCH₃)₅

Molecular Weight: 336.12

CHEMICAL NAME	CAS#	%
Tantalum (V) Methoxide	865-35-0	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with plenty 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: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary.

INHALATION: Remove to fresh air and keep at rest. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain.

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 available

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Use carbon dioxide, extinguishing powder, or foam. Water may be ineffective but may be used for cooling exposed containers.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Carbon oxides and tantalum oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Keep away from ignition sources.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allow to be released to the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Eliminate all ignition sources. Avoid contact with water. Small spills may be absorbed into diatomaceous earth, sand, or other suitable absorbent and swept up.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts and aerosols.

Handle under dry protective gas. Protect against electrostatic charges.

CONDITIONS FOR SAFE STORAGE: Store material in a tightly sealed container in a dry place. If container is left open, product may absorb moisture from the atmosphere and release methanol vapors. Store away from oxidizing agents, water, and moisture. Store under dry inert gas.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS: Contains no substances with occupational exposure limit values.

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield

SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White solid

ODOR: Not available

MOLECULAR WEIGHT: 336.12

BOILING POINT: 189° C

MELTING POINT: 50° C

SPECIFIC GRAVITY: Not available

VAPOR DENSITY: No data available

SOLUBILITY: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Heat, flames, and sparks. Extremes of temperature and direct sunlight.

INCOMPATIBILITY: Strong oxidizing agents, halogens, water, and moisture.

DECOMPOSITION PRODUCTS: Tantalum oxides and carbon oxides.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: METHANOL: Draize Test Eye – rabbit – moderate irritation. TDLo Oral – human – 3571 μ l/kg. TDLo Oral – human – 9450 μ l/kg. LDLo Oral – human – 6422 mg/kg. LDLo Oral – human – 428 mg/kg. TCLo Inhalation – Human – 86000mg/m³. TCLo Inhalation – human – 300ppm. LC50 Inhalation – Rat – 64000 ppm/4h.

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.

MUTAGENIC EFFECTS: Not available

TETRATOGENIC EFFECTS: Not available

CHRONIC TOXICITY: Methanol, if present or generated, may cause intoxication, headache, drowsiness, nausea, vomiting, blurred vision, blindness, coma, and death. Methanol is a defatting agent and can cause skin and eye irritation. Absorption through the skin is possible. Chronic exposure may cause liver and eye injury.

RTECS: No data

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

SECTION 12 ECOLOGICAL DATA

No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

DOT: UN1325 Flammable solids, organic, n.o.s. (Tantalum (V) Methoxide) CLASS 4.1 PG II	IATA: UN1325 Flammable solid, organic, n.o.s. (Tantalum (V) Methoxide) CLASS 4.1 PG II
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Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

DSCL (EEC): Listed on the DSCL inventory

SARA 302/304: Not Listed

SARA 311/312: Fire Hazard, Acute Health Hazard

SARA (TITLE 313): Not Listed

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: Tantalum (V) Methoxide

NEW JERSEY RIGHT TO KNOW COMPONENTS: Tantalum (V) Methoxide

CALIFORNIA PROP. 65: Not Listed

WHMIS CANADA: Class B-4: Flammable solid. Class D-2B: Toxic material causing other toxic effects.

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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