



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Tantalum (V) Isopropoxide**
PRODUCT NUMBER: 3421
CAS NUMBER: 16761-83-4
SYNONYMS: Tantalum Isopropylate, pentaisopropoxytantalum
MANUFACTURER:

Prochem, Inc.
826 Roosevelt Road
Rockford, IL 61109

PHONE: 815-398-1788
FAX: 815-398-1810
TOLL FREE: 800-795-8788

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.
H315	Causes skin irritation.

Precautionary Phrases

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from sources of ignition.
P242	Use only non-sparking tools.
P280	Wear protective clothing and eye/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P402+P404	Store in a dry place in a closed container.

HMIS CLASSIFICATION:

Health: 3 Fire: 3 Reactivity Hazard: 1

NFPA RATING:

Health: 3 Flammability: 3 Reactivity Hazard: 1

EYE CONTACT: Causes severe eye irritation.

SKIN CONTACT: Causes skin irritation.

INHALATION: Causes respiratory tract irritation.

INGESTION: Ingestion may cause gastrointestinal distress, nausea, vomiting, and headache.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Ta(OC₃H₇)₅

Molecular Weight: 476.39

CHEMICAL NAME	CAS#	%
Tantalum (V) Isopropoxide	16761-83-4	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for several minutes. Assure flushing under eyelids.

A victim may need assistance in keeping their eyelids open. Get immediate medical attention.

SKIN EXPOSURE: Wash affected area with soap and copious amounts of water; rinse thoroughly. Remove contaminated clothes if necessary. Seek medical assistance immediately.

INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: > 65° C

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Use carbon dioxide, dry powder, or foam. Do not use water.

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

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Flammable organic vapors and tantalum oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation.

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

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Wear adequate protective equipment, isolate spill, keeping away from ignition sources. Absorb with inert material (sand, diatomite), sweep up and place in well-marked container for disposal. Ventilate area.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Handle under dry protective gas. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Keep away from sources of ignition. Air and moisture sensitive. Store away from oxidizing agents, water, and moisture. Protect from humidity and water. Contact with bulk water is dangerous.

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: Colorless solid

ODOR: None

MOLECULAR WEIGHT: 476.39

BOILING POINT: 122° C

MELTING POINT: 90-92° C

SPECIFIC GRAVITY: 1.31 gm/ml

VAPOR DENSITY: No data available

SOLUBILITY: Reacts with water.

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Sparks, flame, heat, electrostatic charges, sources of ignition.

INCOMPATIBILITY: Oxidizing agents, water, and moisture.

DECOMPOSITION PRODUCTS: Flammable organic vapors and tantalum oxides.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: Not available

CARCINOGENIC EFFECTS: No data available

TETRATOGENIC EFFECTS: No data available

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

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

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

SECTION 14 TRANSPORTATION DATA

UN3180

Flammable solid, corrosive, inorganic, n.o.s.

(Tantalum isopropoxide)

CLASS 4.1 (8)

PG III

Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

TSCA: Not available

SARA 302/304: Not Listed

SARA 311/312: Not Listed

SARA (TITLE 313): Not Listed

CALIFORNIA PROP. 65: 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.

DATE PREPARED: 06/15

SDS DEPT.