

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Tantalum**Formula :** Ta**Product Code:** R-Ta-1001**Chemical Family:** Metal**Synonyms:** Tantalum Metal**Atomic Weight:** 180.95**Manufacturer:**

Rhexon Metals Co., Ltd.

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(0086) 120 (24 Hours)

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Wt%
Ta	7440-25-7	100

SECTION 3 HAZARDS IDENTIFICATION

ROUTES OF ENTRYInhalation Skin Eyes Ingestion Others **CARCINOGEN LISTED IN**

NO DATA

POTENTIAL HEALTH EFFECTS:**Inhalation:**

Acute: Powders or dust may cause irritation to the respiratory tract and mucous membrane.

Chronic: No chronic health effects recorded.

Skin:

Acute: Powders or dust may cause abrasive irritation.

Chronic: No chronic health effects recorded.

Eyes:

Acute: Powders or dust may cause abrasive irritation.

Chronic: No chronic health effects recorded.

Ingestion:

Acute: No acute health effects recorded.

Chronic: No chronic health effects recorded.

Signs and Symptoms:

Inhalation: May cause a red, dry throat, sneezing, coughing and difficulty breathing.

Skin: May cause redness and itching.

Eyes: May cause redness, itching and watering.

Ingestion: No acute or chronic health effects recorded.

Target Organs: May affect the respiratory system.

SECTION 4 FIRST AID MEASURES

Eyes: Hold eyelids apart and flush eyes with lukewarm clear water for at least 15 minutes. Seek medical attention if symptoms persist.

Skin: Remove contaminated clothing and brush materials off skin. Wash affected area with mild soap and water. Wash clothing before reuse. Seek medical attention if irritation persists.

Inhalation: Move victim to fresh air. Keep warm and quiet. If breathing is difficult, give oxygen and seek medical attention immediately.

Ingestion: If patient is conscious, give 1-2 glasses of water or milk and induce vomiting. Seek immediate medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURE

Flammable Properties:

Flash point: Not Applicable

Method used: No data.

Explosive limits: LEL/UEL: Not applicable

Auto-ignition Temperature: Not applicable

Unusual Fire and Explosion Hazards: Powdered material may form explosive dust-air mixtures.

Extinguishing Media: Use powdered graphite, dolomite, or sodium chloride. Do not use water.

Special Fire Fighting Procedures: Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Keep good general ventilation. Isolate spill and clean up with vacuum. Avoid conditions which create fumes or fine dust. Do not sweep solids and raise dust levels. Put material in appropriate waste container. An approved air purifying respirator with particulate cartridge and other personal protective equipment such as rubber gloves are recommended.

SECTION 7 HANDLING AND STORAGE

Handling: keep containers tightly closed when not in use. Use care to avoid spills. Wear appropriate personal protecting equipment. Clean your hands thoroughly after handling this product. Do not touch or rub eyes until your hands are washed.

Storage: Store this material in a cool, dry and well-ventilated area. Keep containers tightly closed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Local and general exhaust ventilation is recommended to control any airborne contaminants and to reduce potential exposure.

Personal protection

Eyes: wear chemical safety glasses or goggles

Skin: gloves are recommended when handling solids

Respirator: A NIOSH approved air purifying respirator with a particulate filter or a HEPA dust mask is recommended under certain circumstances where airborne concentrations are expected to be elevated or when ventilation is not available. Avoid breathing dust.

Other: avoid the use of contact lens in high fume and dust areas. Maintain good housekeeping. Clear up spills immediately. Source of clear water should be available. Good person hygiene is essential. Avoid eating, drinking, or smoking in the work area. Wash hand thoroughly with soap and water immediately upon leaving the working area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Gray to bluish, when polished metal may be silver white.

Odor: no odor

Boiling Point: 5325.00 C (9617.0 F) to 5525.00 C (9977.0 F)

Melting Point: 2996.00 C (5424.8 F)

Specific Gravity: 16.6 g/cm³ at 20.0 C (68.0 F)

Solubility in water: insoluble

PH: No data

Percent volatile: no data

SECTION 10 STABILITY AND REACTIVITY

General: stable

Conditions to Avoid: Not established

Incompatible Materials: Strong oxidizing agents, bromine trifluoride, fluorine, lead chromate, fused alkalis, dilute hydrofluoric acid.

Hazardous Decompositions or byproducts: Tantalum oxide

Hazardous Polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Carcinogenicity

Occupational Safety & Health Administration (OSHA) NO
U.N. International Agency for Research on Cancer (IRAC) NO

Irritancy of product : may be an irritancy

Sensitization to product: not established

Reproductive toxicity: not establish

Mutagenicity: not established

Teratogenicity: not established

synergistic products: not established

SECTION 12 ECOLOGICAL INFORMATION

Do not allow material to be released to the environment without proper governmental permits.

SECTION 13 DISPOSAL CONSIDERATIONS

Consult local or national regulations to ensure proper disposals

SECTION 14 TRANSPORT INFORMATION

Not a hazardous material for transportation. Transport in accordance with applicable regulations and requirements.

SECTION 15 OTHER INFORMATION**HMIS Hazard Rating****Minimal 0 ; Slight 1 ; Moderate 2; Serious 3; Extreme 4**

Health	1
Flammability	0
Reactivity:	0

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