International Advanced Materials

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Material Data Safety Sheet

Quick Identifier: Tantalum Pentoxide

I. PRODUCT IDENTIFICATION

Trade Name: Tantalum Pentoxide
Formula: Ta205
Synonyms:
Molecular Weight:
CAS #: N/A

II. HAZARDOUS INGREDIENTS

Hazardous Components:	OSHA PEL:	ACGIH TLV:	Other Limits:
Tantalum Pentoxide		5 mg/m3	

Sec. 302 (EHS): No **Sec. 304 RQ**: No **Sec. 313**: No
HMIS Ratings (0-4): **Health**: N/A **Flammability**: N/A **Reactivity**: N/A
HMIS Protective Equipment: **N/A**

III. PHYSICAL DATA

Boiling Point: 1872 C
Melting Point: 1872 C
Specific Gravity (H_2O=1): 11-16 g/ cu. In.
Vapor Density (Air=1): N/A
Vapor Pressure (mm Hg): N/A
Evaporation Rate: N/A
% Volatiles by Volume: N/A
Solubility in H_2O: Insoluble

Appearance and Odor: White, microcryst, infusible, powder. Odorless

IV. FIRE AND EXPLOSION HAZARDS DATA

Flash Point/Method: Not applicable
Explosive Limits: **LEL**: N/A **UEL**: N/A

Extinguishing Media: N/A
Special Fire Fighting Procedures: N/A
Unusual Fire and Explosion Hazards: N/A

V. HEALTH HAZARD INFORMATION

Routes of Entry: Inhalation, Skin and Ingestion.
Target Organs: N/A
Carcinogenicity: **NTP**: No **IARC Monographs**: No **OSHA Regulated**: No
LD50/LC50: No toxicity data recorded.

Health Hazards (Acute and Chronic):

Inhalation:

Acute: May cause fibrosis of the lungs.
Chronic: N/A

Ingestion:

Acute: Systemic industrial poisoning is apparently unknown.
Chronic: N/A

Skin:

Acute: May cause irritation.
Chronic: N/A

Eye:

Acute: N/A
Chronic: N/A

Signs and Symptoms of Exposures:

Inhalation: N/A
Ingestion: N/A
Skin: N/A
Eye: N/A
Medical Conditions Generally Aggravated by Exposure: N/A

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove from area where airborne concentration exceeds 5 mg/m3
INGESTION: None required
SKIN: Remove contaminated clothing and wash thoroughly with soap and water
EYE: None suggested.

VI. REACTIVITY DATA

Stability:	Stable
Incompatibility (Material to avoid):	Reacts violently with BrF3, Li
Hazardous Decomposition Products:	N/A
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	See below

VII. SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material Is Released or Spilled:	Provide engineering controls to keep airborne dust concentrations and exposure to a minimum.
Waste Disposal Method:	Reclaim or dispose of scrap material in accordance with applicable federal, state and local regulations.
Hazard Label Information:	Not applicable
Precautions to Be Taken in Handling and Storing:	Not mentioned

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection:	Utilize NIOSH approved respirator whenever airborne concentrations exceed 5 mg/m3
Ventilation: **Local Exhaust**:	See above
Mechanical (General):	See above
Protective Gloves:	Leather
Eye Protection:	Industrial safety glasses
Other Protective Clothing or Equipment:	Coverall to reduce skin contact.
Work/Hygienic/Maintenance	Normal hygienic practices.

Practices:

IX. ADDITIONAL COMMENTS

Some of the chemicals listed herein are research or experimental substances which may be toxic, as defined by various governmental regulations. In accordance with Environmental Protection Agency regulations and the Toxic Substance Control Act (TSCA), these materials should only be handled by, or under the direct supervision of a "technically qualified individual", as defined in 40 CFR 710.2(aa).

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