# **MATERIAL SAFETY DATA SHEET**

#### **PRODUCT IDENTIFICATION** Ι

Trade Name: Chemical Family: CAS #:	Tantalum Carbide Carbide 12070-06-3	Synonym: None k Formula: TaC	known	
II HAZARDOUS	INGREDIENTS			
<b>Percentage</b> : 100 <b>PEL</b> : 5 mg/m <sup>3</sup> as Ta		<b>TLV (Units)</b> : 5 mg/m <sup>3</sup> d	<b>TLV (Units)</b> : 5 mg/m <sup>3</sup> dust as Ta	
III PHYSICAL DA	ТА			
Boiling Point 760 mm H	g: 5500 °C	Freezing/Melting Point	: 38.80 °C	
Vapor Density:	No data	Vapor Pressure:	Essentially 0	
% Volatiles:	0	Solubility in H <sub>2</sub> O:	Insoluble	
Appearance and Odor:	Black to grey powder, no odor	<b>Evaporation Rate</b> :	0	

#### FIRE AND EXPLOSION HAZARDS DATA IV

Flash Point (Method Used): N/A Flammable Limits: Upper: N/A Lower: N/A

Extinguishing Media: Use water, carbon dioxide, dry chemical extinguishing agents, dry sand, or dry ground dolomite.

Special Fire Fighting Procedures: No special firefighting procedures needed, use normal procedures which include wearing NIOSH/MSHA approved self-contained breathing apparatus, flame and chemical resistant clothing, hats, boots and gloves. If without risk remove material from fire area.

#### V HEALTH HAZARD INFORMATION

OSHA (PEL): 5 mg/m<sup>3</sup> as TA Animal Toxicity: LD50: No Data

LC50: No Data

**Effects of Exposure**:

Acute Effects: **Ingestion**: None known Eye Contact: May cause irritation

**Chronic Effects**: Ingestion: None known Eye Contact: None known Other: Details of toxicity are unknown.

Medical Conditions Aggravated: None known. Other Health Hazards: None known. Most Likely Routes of Entry: Ingestion

ACGIH (TLV): 5 mg/m<sup>3</sup> dust as TA

Other: No Data

Skin Contact: May cause skin irritation on contact. Inhalation: May cause respiratory irritation.

Skin Contact: None known Inhalation: None Known

Autoignition Temperature: No Data

## **EMERGENCY AND FIRST AID PROCEDURES**:

**EYE**: Immediately flush eyes, including under eyelids, with large amounts of water for at least 15 minutes. Call a physician. **SKIN**: Remove contaminated clothing, flood skin with large amounts of water. If irritation persists seek medical attention. **INGESTION**: No data available, but one should obtain medical attention. **INHALATION**: No specific information available, one should obtain medical attention.

### VI REACTIVITY DATA

Stability: Stable Incompatibility (Material to Avoid): Flammable gases.

Hazardous Decomposition Products: May emit irritating fumes. Conditions to Avoid: Extremely resistant to chemical action except at elevated temperatures. Other: May form explosive mixture with gases.

### VII SPILL OR LEAK PROCEDURES

RCRA Code: None

#### TSCA Registered: No

**Steps to Be Taken in Case Material Is Released or Spilled**: Wearing full protective equipment, cover spill with dry sand or vermiculite. Mix well and carefully transfer to a container.

Waste Disposal: In accordance with Local, State and Federal Waste Disposal Regulations.

### VIII SPECIAL PROTECTION INFORMATION

**Respiratory Protection**: High efficiency particle respirator. **Ventilation**: Laboratory fume hood.

**Protective Gloves**: Rubber. **Eye/Face Protection**: ANSI approved safety goggles.

#### IX SPECIAL PRECAUTIONS

Handling and Storage: Keep container tightly closed. Store in a cool, dry, well-ventilated area. Wash thoroughly after use.

**Other Precautions**: Lab coat and apron, flame and chemical resistant coveralls, eyewash capable of sustained flushing, safety drench shower and hygienic facilities for washing.

Transportation Information: Per 49CFR 172.101 Proper Shipping Name: Not regulated Hazard Classification: None UN #: None

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