

ELECTRONIC SPACE PRODUCTS INTERNATIONAL

1050 Benson Way, Ashland, OR 97520 Toll Free (800) 638-2581 * Fax (541) 488-8313 E-Mail: sales@espimetals.com

MATERIAL SAFETY DATA SHEET

I PRODUCT IDENTIFICATION

Trade Name:	Tantalum Silicide	Fantalum Silicide		Metal
Formula: Molecular Weight:	TaSi ₂ 104.07		CAS #:	12039-79-1
II HAZARDOUS	S INGREDIENTS			
Hazardous Componen Tantalum Silicide	<u>ts</u> <u>%</u> 0-100	<u>OSHA/PEL</u> 5 mg/m ³ as Ta	ACGIH/TLV 5 mg/m ³ dust as Ta	
III PHYSICAL D	ATA			
Boiling Point 760 mm	-		Melting Point: Solubility in H ₂ O:	2200 °C
Density: Appearance and Odor IV FIRE AND EX	•			Insoluble
Flash Point (Method U Flammable Limits: Up		hazard under most condi	tions. Autoignition Data	Temperature: No

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.

Effects of Exposure: Mild (transient) skin irritation. Lung Effects: No specific data available. Generally, insoluble tantalum compounds are not considered inhalation hazards. Animal studies indicate no fibrotic activity from tantalum. Insuluble tantalum compounds are considered practically non-toxic. No data on long term effects.

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

EMERGENCY AND FIRST AID PROCEDURES:

EYE: Immediately flush eyes, including under eyelids, with large amounts of water for at least 15 minutes. **SKIN**: Remove contaminated clothing, flood skin with large amounts of water. If irritation persists seek medical attention. **INGESTION**: Induce vomiting, obtain medical attention. **INHALATION**: Remove to fresh air.

VI REACTIVITY DATA

Stability: Stable **Incompatibility (Material to Avoid)**: None **Hazardous Decomposition Products**: None

VII SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material Is Released or Spilled: Vacuum up spill using HEPA filter.

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

VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection: Filter- dust, fume, mist

Protective Gloves: Neoprene

Other: Normal lab wear.

Ventilation: Use with adequate ventilation. **Eye 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

http://www.espi-metals.com/msds's/Tantalum%20Silicide.htm

use. Do not breathe dust, vapor, mist or gas.

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. ESPI shall not be held liable for any damage resulting from handling or from contact with the above product.

Issued by: S. Dierks Date: June 1993