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Stanford Advanced Materials

We not only sell products, we provide satisfactions.
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Current Version: 2.0 Revision Date: Sep 5, 2012

Material Safety Data Sheet

Identity: Tantalum silicide Formula: TaSi₂

SECTION I - GENERAL INFORMATION

Manufacturer: Stanford Advanced Materials (SAM)

The information below is believed to be accurate and represents the best information available to SAM. However, SAM makes no warranty, expressed or implied with respect to such information and assumes no liability resulting from its use.

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Molecular weight: 237.12

<u>CAS # OSHA PEL ACGIH TLV Other %</u> 12039-79-1 $.5gm(Ta/m^3)$ $.5gm(Ta/m^3)$ 0.0-100

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: N/A Vapor Pressure (vs. air or mmHg): N/A Melting Point: $2100 \, \text{C}$ Vapor Density(vs. air=1): N/A Evaporation

Rate: N/A Percent Volatile: N/A

Solubility in water: Insoluble Specific Gravity: (H₂O=1): 9.14

Appearance and odor: Grey metallic powder and pieces, no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Flash Point: N/A

Method Used: None Flammable Explosive Limits: LEL: N/A UEL: N/A

Extinguishing Media:

Use suitable extinguishing media for surrounding materials and type of fire.

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.

Unusual Fire and Explosion Hazards: None



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SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid (stability): None Incompatibility: None determined

Hazardous Decomposition or Byproducts: None determined

Hazardous Polymerization: Will not occur

Conditions to avoid (hazardous polymerization): None

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other? No

Health Hazards (Acute and Chronic):

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

Ingestion: No acute or health effects recorded. Skin: May cause redness and itching

Eye: May cause redness, itching, and watering

Inhalation:

Acute: May cause mild irritation to the respiratory tract and mucous membrance

Chronic: No chronic health effects recorded

Ingestion: No acute or chronic health effects recorded.

Skin:

Acute: May cause mild irritation Chronic: May cause dermatitis

Eye:

Acute: May cause irritation
Chronic: No health effects recorded

Target Organ: None recorded

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Medical Conditions Aggravated by Exposure: Pre-existing respiratory disorders

Emergency and First Aid Procedures:

Inhalation: Remove victim to fresh air, keep warm and quiet, and give oxygen if breathing is

difficult; seek medical attention

Ingestion: Give 1-2 glasses of milk or water and induce vomiting, seek medical attention. Never

induce vomiting or give anything by mouth to an unconscious person.

Skin: Remove contaminated clothing, brush material off skin, wash affected area with mild soap

and water, and seek medical attention if symptoms persist.

Eye: Flush eyes with lukewarm water, lifting upper and lower eyelids for at least 15 minutes

and seek medical attention



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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled:

Wear appropriate respiratory and protective equipment specified in section VIII-Control Measures. Isolate spill area, provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust.

Waste disposal method:

Dispose of in accordance with state, local, and federal regulations.

Hazard Label Information:

Store in cool, dry area and in tightly sealed container. Wash thoroughly after handling.

SECTION VIII - CONTROL MEASURES

Protective Equipment Summary (Hazard Label Information):

NIOSH approved respirator, impervious gloves, safety glasses, clothes to prevent contact, goggles or face shield.

Ventilation:

Local Exhaust: To maintain concentration at low exposure levels.

Mechanical (General): Recommended.

Work/Hygienic/Maintenance Practices:

Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

Please be advised that N/A can either mean Not Applicable or No Data Has Been Established