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MATERIAL SAFETY DATA SHEET

Section 1- PRODUCT IDENTIFICATION

COMPOSITION HfSi²	PRODUCT NAME Hafnium Silicide
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Section 2- HAZARDOUS INGREDIENTS

Note: Products under normal conditions do not represent an inhalation, ingestion or contact health hazard.

MATERIAL OR COMPONENT	CAS NUMBER	WT%	EXPOSURE LIMITS	
			OSHA PEL (Mg/M3)	ACGIH TLV(MG/M3)
HfSi²	12401-56-8	At%	0.5mg(Hf)/m³	0.5mg(Hf)/m³

Section 3- PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS) <input type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> Gas <input type="checkbox"/> Other	APPERANCE AND ODOR Grey- No odor
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Section 4- FIRE AND EXPLOSION

Flash Point (Method Used) N/A	Flammable Limits Not Flammable	LEL N/A	UEL N/A
EXTINGUISHING MEDIA Use suitable extinguishing methods for surrounding materials and type of fire.			
SPECIAL FIRED FIGHTING PROCEDURES Wear a self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Non Recorded			

Section 5- REACTIVITY DATA

STABILITY Stable	INCOMPATABILITY (MATERIALS TO AVOID) None Recorded
CONDITIONS TO AVOID None Known	
HAZARDOUS DECOMPOISTION PRODUCTS None Known	

Section 6- HEALTH HAZARD GUIDE

MAJOR EXPOSURE HAZARD <input type="checkbox"/> Inhalation <input type="checkbox"/> Skin <input type="checkbox"/> Skin Absorption <input type="checkbox"/> Eye Contact <input type="checkbox"/> Ingestion
EFFECTS OF OVEREXPOSURE To the best of our knowledge the chemical, physical and toxicological properties of hafnium silicide have been thoroughly investigated and recorded. Hafnium is a poison of unspecified route. It is poorly soluble in water and thus is not absorbed efficiently by ingestion. Many hafnium compounds are poisons.

EMERGENCY & FIRST AID PROCEDURES

INHALATION: Remove from exposed area to fresh air immediately. Give oxygen if breathing is difficult and seek medical attention.

EYE CONTACT: Flush with warm water lifting upper and lower lids.

SKIN: Remove contaminated clothing, brush material off skin, wash with soap and water.

INGESTION: Give 1-2 glasses of milk or water to induce vomiting.

Section 7- SPILL OR LEAK PROCEDURES

SPILL OR LEAK PROCUDRES

Wear appropriate respiratory and protective equipment. Isolate the area of the spill and insure proper ventilation. Vacuum up spill.

WASTE DISPOSAL METHODS

Dispose of in accordance with applicable Federal, State & Local regulations.

Section 8- SPECIAL PROTECTION

RESPIRATORY

Wear NIOSH-approved respirator.

VENTILATION

Local exhaust: maintain concentration at or below the PEL, TLV level.

EYE PROTECTION & PROTECTIVE CLOTHING

Safety glasses

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