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MATERIAL SAFETY DATA SHEET

Section 1- PRODUCT IDENTIFICATION

COMPOSITION TiC	PRODUCT NAME Titanium Carbide
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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)
Titanium Carbide	12070-08-5	100	Not Set	Not Set
			Nuisance dust= 10mg/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	APPEARANCE AND ODOR Grey metallic powder; No odor
MELTING POINT (BASE METAL) 3140C (+/-90)	SPECIFIC GRAVITY 4.93 gm/cc

Section 4- FIRE AND EXPLOSION

Flash Point (Method Used) N/A	Flammable Limits Non-Flammable	LEL N/A	UEL N/A
EXTINGUISHING MEDIA DO NOT USE WATER ON METAL FIRES – Use dry chemical, CO2, graphite			
SPECIAL FIRE FIGHTING PROCEDURES Requires full face self contained breathing apparatus with full protective clothing to prevent contact with skin and eyes.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Spontaneous dust explosion possible due to static initiation if dust is very fine.			

Section 5- REACTIVITY DATA

STABILITY Stable	INCOMPATIBILITY (MATERIALS TO AVOID) Contact with acids can generate flammable hydrogen gas
CONDITIONS TO AVOID None	
HAZARDOUS DECOMPOSITION PRODUCTS None	

Section 6- HEALTH HAZARD GUIDE

MAJOR EXPOSURE HAZARD

Inhalation Skin Skin Absorption Eye Contact Ingestion

EFFECTS OF OVEREXPOSURE

INHALATION: May cause mild irritation of the nose and throat. Exposure to TiC2 aerosol for five months caused lung changes in humans similar to silicosis.

SKIN CONTACT: None

EYE CONTACT: Mechanical irritation, watering of eyes and inflammation of eyelids.

OTHER: Insoluble titanium compounds are generally considered physiologically inert and non-toxic.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Respiratory disorders

TOXICITY DATA: No specific data on this compound

CARCINOGENICITY: None NTP? No IARC Monographs? No OSHA Regulated? No

EMERGENCY & FIRST AID PROCEDURES

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

SKIN CONTACT: Remove contaminated clothing and shoes immediately. Brush material off skin and wash affected area with mild soap and water. Seek medical attention.

EYE CONTACT: Flush eyes with lukewarm water, lifting upper and lower eyelids for at least 15 minutes. Seek medical attention.

INGESTION: If large quantities are consumed; 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.

Section 7- SPILL OR LEAK PROCEDURES

SPILL OR LEAK PROCUDRES

Wear a self contained breathing apparatus and full protective clothing. Isolate the area where the spill occurred and insure that proper ventilation is available. Vacuum up spill using a high efficiency unit and place in a container for proper disposal. Take care not to raise dust.

WASTE DISPOSAL METHODS

Observe all federal, state and local regulations when storing or disposing of this substance.

Section 8- SPECIAL PROTECTION

RESPIRATORY

NIOSH approved dust-mist-fume cartridge respirator.

VENTILATION

Local Exhaust: Maintain below TLV levels. General Mechanical: Recommended.

EYE PROTECTION & PROTECTIVE CLOTHING

Use safety glasses. Wear neoprene protective gloves. Use protective gear suitable to prevent contamination.

Section 9- SPECIAL PRECAUTIONS

Store in tightly closed containers in a cool, dry place. Wash hands and face thoroughly after handling and before eating.

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