



## Safety Data Sheet

### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Ultrafoam™ Tantalum Carbide Foam

Supplier: Ultramet  
12173 Montague St, Pacoima California 91331  
Telephone: +1 818-899-0236 Fax: +1- 818-890-1946  
www.ultramet.com

### **2. HAZARDS IDENTIFICATION**

**Emergency Overview**  
OSHA Hazards Irritant

**GHS Classification**  
Eye irritation (Category 2B)  
Skin irritation (Category 2)

**GHS Label elements, including precautionary statements**  
Pictogram



Signal word Warning

Hazard statement(s)  
H228 Flammable Solid  
  
H315 Causes skin irritation  
  
H320 Causes eye irritation.  
  
H335 May cause respiratory irritation.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

P370+P378A In case of fire: Use for extinction: CO2, powder or water spray.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

#### **HMIS Classification**

**Health hazard:** 1

**Flammability:** 2

**Physical hazards:** 0

#### **NFPA Rating**

**Health hazard:** 1

**Fire:** 2

**Reactivity Hazard:** 0

#### **Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** May be harmful if swallowed.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula: C

Molecular Weight: 12.01 g/mol

Component	CAS no.	Concentration
Tantalum Carbide	12070-6-3	99.9%

### **4. FIRST AID MEASURES**

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance Move out of dangerous area.

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

#### **In case of eye contact**

Flush eyes with water for several minutes. Consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## **5. FIREFIGHTING MEASURES**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - carbon oxides, tantalum oxides.

**Further information**

Use water spray to cool unopened containers.

## **6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

## **7. HANDLING AND STORAGE**

**Precautions for safe handling**

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - Nonsmoking. Take measures to prevent the buildup of electrostatic charge.

**Conditions for safe storage**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Silicon Carbide CAS No. 12069-85-1		
Standard	Value (TWA)	Source
PEL	Not determined	
REL	Not determined	
TLV	Not determined	

Tantalum Ta (metal & oxides) CAS No. 7440-25-7		
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Standard	Value (TWA)	Source
PEL (Hf)	5 mg/m <sup>3</sup>	OSHA CFR 1910.1000 Table Z-1
REL (Hf)	5 mg/m <sup>3</sup>	NIOSH
TLV (Hf)	5 mg/m <sup>3</sup>	ACGIH

## Personal protective equipment

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin and body protection

Flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form: Solid  
Color: Dark gray

### Safety data

pH: no data available

Melting point/range: 3880 °C

Boiling point: 5500 °C

Flash point: no data available

Flammability (solid, gas): highly flammable (powder)

Ignition temperature: no data available

Auto-ignition temperature: no data available

Lower explosion limit: no data available

Upper explosion limit: no data available

Vapor pressure: no data available

Density: 13. g/cm<sup>3</sup>

Water solubility: insoluble

Partition coefficient: n-octanol/water: no data available

Relative vapor density: no data available

Odor: odorless

Odor Threshold: no data available

Evaporation rate: no data available

## **10. STABILITY AND REACTIVITY**

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of hazardous reactions**

no data available

### **Conditions to avoid**

Heat, flames and sparks. Extremes of temperature and direct sunlight.

### **Materials to avoid**

Strong oxidizing agents, Strong acids

### **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - carbon oxides

Other decomposition products - no data available

## **11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

**Oral LD50** no data available

**Inhalation LC50** no data available

**Dermal LD50** no data available

**Other information on acute toxicity** no data available

**Skin corrosion/irritation** no data available

**Serious eye damage/eye irritation** no data available

**Respiratory or skin sensitization** no data available

**Germ cell mutagenicity** no data available

**Carcinogenicity**

IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity** no data available

**Teratogenicity** no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)** no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)** no data available

**Aspiration hazard** no data available

#### **Potential health effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

**Signs and Symptoms of Exposure** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic affects** no data available

## **12. ECOLOGICAL INFORMATION**

**Toxicity** no data available

**Persistence and degradability** no data available

**Bioaccumulative potential** no data available

**Mobility in soil** no data available

**PBT and vPvB assessment** no data available

**Other adverse affects** no data available

## **13. DISPOSAL CONSIDERATIONS**

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging Dispose** of as unused product.

## **14. TRANSPORT INFORMATION**

### **DOT (US)**

Hazard class:4.1

Flammable solid n.o.s. (tantalum carbide)

ID No. UN3178

Packing group III

### **IMDG**

Not dangerous goods

### **IATA**

Not dangerous goods

## **15. REGULATORY INFORMATION**

### **OSHA Hazards**

Flammable solid

Irritant

**SARA 302 Components** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards** Acute Health Hazard

### **Massachusetts Right To Know**

Graphite Cas # 12070-6-3

### **Pennsylvania Right To Know Components**

Graphite Cas # 12070-6-3

### **New Jersey Right To Know Components**

Graphite Cas # 12070-6-3

### **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **16. OTHER INFORMATION**

### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.