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SAFETY DATA SHEET

Section 1- IDENTIFICATION		
COMPOSITION TaC		PRODUCT NAME Tantalum Carbide
SUPPLIER: Plasmaterials, Inc. 2268 Research Drive Livermore, CA 94550 Ph: 925-447-4030	RECOMMENDED USE: Laboratory Chemicals Scientific Research	EMERGENCY TELEPHONE NUMBERS US: 001-800-424-9300 Europe: 001-703-527-3887

Section 2- HAZARD(S) IDENTIFICATION	
Physical Hazards: Not Classified	Health Hazards: Not Classified
Environmental Hazards: Not Classified	OSHA Defined Hazards: Not Classified
LABEL ELEMENTS:	
Hazard Symbol: None	Signal Word: None
<u>HAZARD STATEMENTS</u>	
-The substance does not meet the criteria for classification	
<u>PRECAUTIONARY STATEMENTS</u>	
Prevention:	
-Observe good industrial hygiene practices	
-Wear protective gloves, clothing, eye protection and face protection.	
-Wash hands after handling.	
-Store away from incompatible materials.	
-Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazards not otherwise classified (HNOC):	
-None identified.	

Section 3- COMPOSITION/INFORMATION ON INGREDIENTS		
COMPONENT	CAS-No	Molecular Weight
Tantalum Carbide	12070-06-3	192.96 g/mol

Section 4- FIRST AID MEASURES
<p>INHALATION: Remove victim from exposure to fresh air. Give oxygen if breathing is difficult. If not breathing, give artificial respiration. Consult a physician if symptoms develop or persist.</p> <p>SKIN CONTACT: Wash off with soap and plenty of water. Obtain medical attention if irritation develops or persists.</p> <p>EYE CONTACT: Flush eyes with lukewarm water, lifting upper and lower lids, for at least 15 minutes. Obtain medical attention if irritation develops or persists.</p> <p>INGESTION: Rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical advice/attention if symptoms occur.</p> <p>MOST IMPORTANT SYMPTOMS/EFFECTS: Direct contact with eyes may cause temporary irritation.</p> <p>INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: Provide general supportive measures and treat symptomatically.</p> <p>General Information: Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.</p>

Section 5- FIREFIGHTING MEASURES

Suitable Extinguishing Media:

Water Fog, Foam, Dry Chemical Powder, Carbon Dioxide (CO₂)

Unsuitable Extinguishing Media:

Do not use water jet as an extinguisher as this will spread the fire.

Specific Hazards Arising from the Chemical:

During fire, gases hazardous to health may be formed.

General Fire Hazards:

No unusual fire or explosion hazards noted.

Protective Equipment & Precautions for Firefighters:

As in any fire, Firefighters must wear full face, self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

Specific Methods:

Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6- ACCIDENTAL RELEASE MEASURES

Personal Precautions: Keep unnecessary personnel away. For personnel protection see Section 8.

Environmental Precautions: Avoid discharge into drains, water courses or onto the ground. See Section 12 for additional ecological information.

Methods for Containment & Clean Up: Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal see Section 13.

Section 7- HANDLING AND STORAGE

Handling: Observe good industrial hygiene practices.

Storage: Store in original tightly closed container. Store away from incompatible materials.

Section 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Occupational Exposure Limits: No exposure limits noted for ingredient(s)

Biological Limit Values: No biological exposure limits noted for the ingredient(s)

Engineering Controls: Follow standard monitoring procedures.

Personal Protective Equipment:

Eye/Face Protection: Wear safety glasses with side shields or goggles.

Skin and Body 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.

Wear suitable protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection: In case of insufficient ventilation, use a NIOSH/MSHA approved respirator.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9- PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Appearance: No information available

Odor: No information available

Odor Threshold: No information available

pH: No information available

Melting Point/Range: No information available
Boiling Point/Range: No information available
Flash Point: No information available
Evaporation Rate: No information available
Flammability (solid,gas): No information available
Flammability or Exposure Limits:
 Upper: No data available
 Lower: No data available
Vapor Pressure: No information available
Vapor Density: No information available
Relative Density: No information available
Solubility: No information available
Partition coefficient; n-octanol/water: No information available
Auto Ignition Temperature: No information available
Decomposition Temperature: No information available
Viscosity: No information available
Explosive Properties: Not explosive
Oxidizing Properties: Not oxidizing

Section 10- STABILITY AND REACTIVITY

Reactive Hazard: Stable and non-reactive under normal conditions of use, storage and transport.

Stability: Stable under recommended storage conditions.

Conditions to Avoid: Contact with incompatible materials

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: No information available

Hazardous Polymerization: No information available

Hazardous Reactions: No information available

Section 11- TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation: No adverse effects due to inhalation are expected.

Skin Contact: No adverse effects due to skin contact are expected.

Eye Contact: Direct contact with eyes may cause temporary irritation.

Ingestion: Expected to be a low ingestion hazard.

Information on Toxicological Effects:

Acute Toxicity: No information available

Skin Corrosion/Irritation: Prolonged skin contact may cause temporary irritation.

Serious eye damage/irritation: Direct contact with eyes may cause temporary irritation

Respiratory or Skin Sensitization: No information available

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA

Germ Cell Mutagenicity: No information available

Reproductive Effects: No information available

Development Effects: No information available

Specific Target Organ Toxicity – single exposure: No information available

Specific Target Organ Toxicity – repeated exposure: No information available

Aspiration Hazard: No information available

Section 12- ECOLOGICAL INFORMATION

Toxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability: No information available

Bioaccumulation/Accumulation: No information available

Mobility in Soil: No information available

Other Adverse Effects: No information available.

Section 13- DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dispose of contaminated packaging as unused product. Dispose in accordance with all applicable regulations.

Section 14- TRANSPORT INFORMATION

DOT: Not regulated as dangerous goods

IATA: Not regulated as dangerous goods

IMDG/IMO: Not regulated as dangerous goods

Section 15- REGULATORY INFORMATION

US Federal Regulations:

Superfund Amendments and Reauthorization Act of 1986 (SARA):

Hazard Categories:

Immediate Hazard: No

Delayed Hazard: No

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

SARA 302 Extremely Hazardous Substance: Not listed

SARA 311/312 Hazardous Chemical: No

SARA 313 (TRI Reporting): Not regulated

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4): Not listed

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed

US Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated

US Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.

US Safe Drinking Water Act (SDWA): Not regulated

US Massachusetts RTK – Substance List: Not regulated

US New Jersey Worker & Community Right-to-Know Act: Not regulated

US Pennsylvania RTK – Hazardous Substances: Not regulated

US Pennsylvania Worker & Community Right-to-Know Law: Not listed

US Rhode Island Right-to-Know: Not regulated

US California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

US California Controlled Substances. CA Dept. of Justice (CA Health & Safety Code Section 11100): Not listed

Section 16- OTHER INFORMATION

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