

**** MATERIAL SAFETY DATA SHEET ****

MSDS Name: Tantalum nanopowder

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Tantalum nanopowder

Catalog Numbers:

Synonyms: Tantalum nanopowder

Company Identification:

Nanostructured & Amorphous Materials, Inc.

16840 Clay Road, Suite #113

Houston, TX 77084, USA

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#
7440-25-7	Tantalum nanopowder	99.9%+	231-135-5

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Eye: May cause eye irritation.

Skin: nothing

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: nothing

Chronic: nothing

Hazard statement(s): Flammable solid.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes: In case of contact, immediately flush eyes with plenty of water. Get medical aid.

Skin: nothing

Ingestion: Get medical aid.

Inhalation: nothing

Notes to Physician: Treat symptomatically and supportively.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

As in any fire, wear a self-contained breathing apparatus inpressure-demand, any method keep it

isolated with air.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information:

Keep packaging integrated, or keep it isolated with air.

Spills/Leaks:

Had better isolate with air, or cover with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool.

**** SECTION 7 - HANDLING and STORAGE ****

Handling: Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation.

Storage:

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a well-ventilated area away from incompatible substances. Flammables-area. Do not pressurize, cut, weld, braze, solder, drill, grind, or unfold containers to heat, sparks or open flames.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Personal Protective Equipment:

Wear appropriate protective clothing to prevent skin exposure.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Solid	Color: black
Odor: odorless	pH: N/A
Vapor Pressure: N/A	Viscosity: N/A
Boiling Point: N/A	Freezing/Melting Point: N/A
Autoignition Temperature: N/A	Flash Point: N/A
Explosion Limits, lower	Explosion Limits, upper
Decomposition Temperature	Solubility in water: N/A
Specific Gravity/Density:	Molecular Formula: Ta
Molecular Weight: 180.95	

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Ignition sources, excess heat.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#: No data

**** SECTION 12 - ECOLOGICAL INFORMATION ****

No Information

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Contact a specialist disposal company or the local waste regulator for advice.

**** SECTION 14 - TRANSPORT INFORMATION ****

IATA

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