

MATERIAL SAFETY DATA SHEET

ADMAT INC

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SECTION 1 - IDENTIFICATION

Product Name: Niobium Oxide
Synonyms: Niobium Pentoxide, Capacitor Grade Niobium Oxide
Chemical Family: Metal oxide
CAS#: 1313-96-8
Molecular formula: Nb₂O₅
EINECS Number: 215-213-6

SECTION 2 - INGREDIENTS

Chemical:	Nb ₂ O ₅		
CAS#	%	PEL	TLV
1313-96-8	100	n/a	n/a

SECTION 3 - PHYSICAL DATA

Boiling Point: n/a
Ignition Temperature n/a
Solubility in Water: Insoluble
Freezing/Melting Point: 1520C
Evaporation Rate (butyl acetate = 1): 0
Molecular Weight: 265.81
Vapor Pressure: Not Determined
Appearance and odor: Off White
Other: No data

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Auto-ignition Temperature: n/a
Extinguishing Media: Use extinguishing media most appropriate for

Special Fire Fighting Procedures:

Use normal firefighting procedures which include wearing NIOSH/MSHA approved self-contained breathing apparatus, flame and chemical resistant clothing, hats, boots, and gloves. If without risk, remove material from fire area.

SECTION 5 - HEALTH DATA

A. ANIMAL TOXICITY

LD50: No data
LC50: No data
Other: No data

B. EFFECTS OF EXPOSURE

ACUTE EFFECTS

Ingestion: May cause irritation of the digestive tract.
Skin Contact: Powder or dust may cause irritation.
Eye Contact: Powder or dust may cause eye irritations.
Inhalation: Powder or dust may irritate mucous membranes and upper respiratory tract.

Other Health Hazards: None known.
Most Likely Routes of Entry: Ingestion

C. EMERGENCY AND FIRST AID PROCEDURES

Ingestion:

Do Not Induce Vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water.

Skin Contact:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

EyeContact:

Immediately flush eyes, including under eyelids, with large amounts of water for at least 15 minutes. Call a physician.

Inhalation:

Remove to fresh air. If required provide artificial respiration. Seek immediate medical attention.

SECTION 6 - REACTIVITY

Incompatibility: No significant incompatibilities identified with common materials and contaminants

Dangerous Reactions: n/a

Hazardous Decomposition Products: n/a

Stability: Stable under normal conditions. Turns yellow when heated.

Conditions to Avoid: Dust generation

SECTION 7 - ENVIRONMENTAL INFORMATION

RCRA Code:Not listed

Spill and Leak Procedures: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. **Waste**

Disposal: Consult state, local or federal EPA regulations for proper disposal.

SECTION 8 - PROTECTION INFORMATION

Respiratory Protection:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Protective Gloves:

Rubber

Eye/Face Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Other:

Keep away from food stuffs, beverages, and feed. Avoid contact with skin and wash hands before eating and at the end of the work day.

SECTION 9 - SPECIAL PRECAUTIONS

Handling and storage:

Keep container tightly closed. Store in a cool, dry, well-ventilated area. Wash hands thoroughly after use.

Transportation – Not regulated

SECTION 10 - COMMENTS

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet or in combination with any other product or process, is the responsibility of the user.