

## SAFETY DATA SHEET

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA- NO OEL DATA

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### Section 1: Chemical Product and Company Identification

#### 1.1 Product identifiers

Product name : High-Purity Niobium Pentoxide  
CAS-No. : 1313-96-8  
Chemical Name : Nb<sub>2</sub>O<sub>5</sub>  
Purity : 99.99%---99.999%

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Laboratory chemicals, Manufacture of substances

#### 1.3 Contact Information

Company : Platotex Technology Company Ltd.  
Level 21, The Centre 99 Queen's Road Central,  
Central, Hong Kong  
Tell : +852 2371-7679  
Fax : +852 2579-0808

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### Section 2: Composition and Information on Ingredients

#### 2.1 Composition

Name : High-Purity Niobium Pentoxide  
CAS-No. : 1313-96-8  
% by Weight : 100

#### 2.2 Toxicological Data on Ingredients

Not applicable

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### Section 3: Hazards Identification

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.2 Label elements

Warning

#### 2.3 Other hazards

Irritating to eyes, respiratory system and skin

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### Section 4: First Aid Measures

#### 4.1 If inhaled

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

#### 4.2 In case of skin contact

Wash off with soap and plenty of water.

#### 4.3 In case of eye contact

Flush eyes with water as a precaution.

#### 4.4 If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.5 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly

investigated.

**4.6 Indication of any immediate medical attention and special treatment needed**

N/A

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**Section 5: Fire and Explosion Data**

**Extinguishing media**

**5.1 Suitable extinguishing media**

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

**5.2 Special hazards arising from the substance or mixture**

niobium oxides

**5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information no data available**

Use water spray to cool unopened containers.

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**Section 6: Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**6.2 Environmental precautions**

Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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**Section 7: Handling and Storage**

**7.1 Precautions**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**7.2 Conditions for safe storage, including any incompatibilities**

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

**7.3 Specific end use(s)**

no data available

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**Section 8: Exposure Controls/Personal Protection**

**8.1 Control parameters**

Components with workplace control parameters

**8.2 Exposure controls**

**Appropriate engineering controls**

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

**Eye/face 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 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.

**Body Protection**

Impervious 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**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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## **Section 9: Physical and Chemical Properties**

- a) Appearance Form: Drey powder
  - b) Odour no data available
  - c) Odour Threshold no data available
  - d) pH no data available
  - e) Melting point/freezing point  
Melting point/range: no data available
  - f) Initial boiling point and boiling range  
no data available
  - g) Flash point not applicable
  - h) Evaporation rate no data available
  - i) Flammability (solid, gas) : no data available
  - j) Upper/lower flammability or explosive limits  
no data available
  - k) Vapour pressure no data available
  - l) Vapour density no data available
  - m) Relative density 4,47 g/mL at 25 °C
  - n) Water solubility: no data available
  - o) Partition coefficient: noctanol/water no data available
  - p) Autoignition temperature no data available
  - q) Decomposition temperature no data available
  - r) Viscosity no data available
  - s) Explosive properties no data available
  - t) Oxidizing properties no data available
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## **Section 10: Stability and Reactivity Data**

### **10.1 Reactivity**

No data available

### **10.2 Chemical stability**

Stable under recommended storage conditions.

### **10.3 Possibility of hazardous reactions**

No data available

### **10.4 Conditions to avoid**

No data available

### **10.5 Incompatible materials**

Strong oxidizing agents

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## **Section 11: Toxicological Information**

11.1 Routes of Entry: Not available.

Toxicity to Animals: LD50: Not available. LC50: Not available.

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Non-corrosive for skin. Non-sensitizer for skin. Non-permeation by skin.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

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**Section 12: Ecological Information**

12.1 **Toxicity**

No data available

12.2 **Persistence and degradability**

No data available

12.3 **Bioaccumulative potential**

No data available

12.4 **Mobility in soil**

No data available

12.5 **Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 **Other adverse effects**

No data available

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**Section 13: Transport Information**

**13.1 UN number**

ADR/RID: - IMDG: - IATA: -

**13.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**13.3 Transport hazard class(es)** ADR/RID: - IMDG: - IATA: -

**13.4 Packaging group** ADR/RID: IMDG: - IATA: -

**13.5 Environmental hazards** ADR/RID: no IMDG Marine pollutant: no IATA: no

**13.6 Special precautions for user** no data available

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**Section 14: Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**14.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No data available

**14.2 Chemical Safety Assessment**

no data available

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**Section 15: Disposal Consideration**

**15.1 Waste treatment methods**

**Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting, as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

**15.2 Contaminated packaging**

Dispose of as unused product.

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**Section 16: Other Information**

N/A