

## 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 : Lithium Niobate Multiple Crystal  
CAS-No. : 12031-63-9  
Chemical Name :  $\text{LiNbO}_3$   
Purity :  $\text{Nb}_2\text{O}_5$ : 90.0~91.0  
 $\text{Li}_2\text{O}$ : 9.0~10.0

#### 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 : Lithium Niobate Multiple Crystal  
CAS-No. : 12031-63-9  
% 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.

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

#### 2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

#### 2.3 Other hazards

none

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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**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### **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**

Lithium oxides, niobium oxides

#### **5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **5.4 Further information no data available**

no data available

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### **Section 6: Accidental Release Measures**

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

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

#### **6.2 Environmental precautions**

Do not let product enter drains.

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

Sweep up and shovel. Keep in suitable, closed containers for disposal.

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### **Section 7: Handling and Storage**

#### **7.1 Precautions**

Provide appropriate exhaust ventilation at places where dust is formed.

#### **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)**

A part from the uses mentioned in section 1.2 no other specific uses are stipulated

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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**

General industrial hygiene practice.

##### **Eye/face protection**

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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. 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: White 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 no data available
  - 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**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**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**

For this product a chemical safety assessment was not carried out

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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