

## Material Safety Data Sheet

### **Section 1 - Chemical Product and Company Identification**

**MSDS Name:** ABT-869  
**Synonyms:** Linifanib,AL-39324,RG3635  
**Company Identification:** PI Chemicals Ltd.  
Building B, 633 E Shan Road, Pudong New Area  
Shanghai 200127, China  
**Telephone Number:** 86-21-58953700  
**Fax Number:** 86-21-58953701

### **Section 2 - Product Information**

**Catalog Number:** PI-35199  
**CAS Number:** 796967-16-3  
**MDL Number:** MFCD11840918  
**Purity:** 98%

### **Section 3 - Physical and Chemical Properties**

**Physical state:** Powder  
**Color:** White to beige  
**Molecular Formula:**  $C_{21}H_{18}FN_5O$   
**Molecular Weight:** 375.4  
**Freezing/Melting Point:** Undetermined  
**Boiling Point:** Undetermined  
**Flash Point:** Undetermined  
**Autoignition Temperature:** Undetermined  
**Refractive Index (nD20):** Undetermined  
**Density:** Undetermined  
**Decomposition Temperature:** Undetermined  
**Solubility:** Undetermined

### **Section 4 - Hazards Identification**

**Eye:** May cause eye irritation.  
**Skin:** May be harmful if absorbed through skin. May cause skin irritation.  
**Ingestion:** May be harmful if swallowed.  
**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

## **Section 5 - First Aid Measures**

- Eye:** Check for and remove contact lenses and flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician.
- Skin:** Flush with copious amounts of water; remove contaminated clothing and shoes; call a physician.
- Ingestion:** If swallowed, wash out mouth with copious amounts of water; call a physician.
- Inhalation:** If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration.

## **Section 6 - Stability and Reactivity**

- Chemical Stability:** Stable under recommended storage conditions.
- Materials to avoid:** Oxidizing agents.
- Conditions to Avoid:** Protect from light and heat.
- Hazardous Decomposition Products:** Thermal decomposition may produce toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides
- Hazardous Polymerization:** Will not occur.

## **Section 7 - Handling and Storage**

- Handling:** Avoid inhalation and contact with skin, eyes and clothing; material may be an irritant.
- Storage:** Store at -20 °C.

## **Section 8 - Personal Protection**

- Eyes:** Wear appropriate protective eyeglasses.
- Skin:** Wear appropriate protective gloves to prevent skin exposure.
- Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- Respirators:** Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## **Section 9 - Fire and Explosion Hazard Data**

- General Information:** As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and protective clothing to prevent contact with skin and eyes.
- Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.

## **Section 10 - Accidental Release Measures**

- General Information:** Use proper personal protective equipment as indicated in Section 8.
- Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

## ***Section 11 - Toxicological Information***

**RTECS#:** CAS# 796967-16-3: Not available.  
**LD50/LC50:** RTECS # Not available.  
**Carcinogenicity:** ABT-869 -Not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA.

## ***Section 12 - Environmental information***

Not available

## ***Section 13 - Disposal Consideration***

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

## ***Section 14 - Transport Information***

**IATA:** Not a dangerous good.  
**IMO:** Not a dangerous good.  
**RID/ADR:** Not a dangerous good.

## ***Section 15 - Regulatory Information***

### ***European/International Regulations***

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Indication of Danger: Toxic

Contains a pharmaceutically active ingredient. Handling should only be performed by personnel trained and familiar with handling of potent active pharmaceutical ingredients Moderate to severe irritant to the skin and eyes.

### **Risk Phrases:**

**R28:** Very toxic if swallowed.

**R38:** Irritating to skin.

**R41:** Risk of serious damages to eyes.

**R48:** Toxic; danger of serious damage to health by prolonged exposure.

**R62:** Possible risk of impaired fertility.

**R63:** Possible risk of harm to unborn child.

### **Safety Phrases:**

**S24/25:** Avoid contact with skin and eyes.

**S26:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**S28: After contact with skin, wash immediately with plenty of water.**

**S36/37/39: Wear protective clothing, gloves and eye/face protection.**

### ***Section 16 - Additional Information***

**MSDS Creation Date:** April 15, 2009

**Update:** May 10, 2011

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