

## Material Safety Data Sheet

### Section 1 – Chemical Product and Company Identification

**MSDS Name:** Artemisnini  
**Synonyms:** Artemisia P.E.  
**Company Identification:** PI Chemicals Ltd.  
Room 6-306, Building 2  
1341 Pudong South Road  
Pudong New Area, Shanghai 200212, China  
**Telephone Number:** 86-21-51389368  
**Fax Number:** 86-21-51389367  
**Emergency Number:** 86-21-51389369

### Section 2 – Product Information

**Catalog Number:** PI-10492  
**CAS #:** 63968-64-9  
**Purity:** 98.0%

### Section 3 – Physical and Chemical Properties

**Physical state:** Crystal  
**Color:** White  
**Odor:** Not available  
**Molecular Formula:**  $C_{15}H_{22}O_5$   
**Molecular Weight:** 282.33  
**Freezing/Melting Point:** 150-153 deg C  
**Boiling Point:** Not available  
**Flash Point:** Not available  
**Autoignition Temperature:** Not available  
**Refractive Index (n<sub>D</sub>20):** Not available  
**Density:** Not available  
**Decomposition Temperature:** Not available  
**Solubility:** Not available

### Section 4 – Hazards Identification

**Eye:** Causes eye irritation.

**Skin:** Causes skin irritation. Harmful if absorbed through the skin.  
**Ingestion:** May cause irritation of the digestive tract. Toxic if swallowed.  
**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

## Section 5 – First Aid Measures

**Eye:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
**Skin:** Get medical aid. Flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.  
**Ingestion:** Get medical aid immediately. Wash mouth out with water.  
**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

## Section 6 – Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Materials to avoid:** Strong oxidizing agents.  
**Conditions to Avoid:** Incompatible materials.  
**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.  
**Hazardous Polymerization:** Has not been reported.

## Section 7 – Handling and Storage

**Handling:** Avoid breathing dust, vapor, mist, or gas. Keep container tightly closed. Avoid contact with skin and eyes. Wash thoroughly after handling. Mechanical exhaust required.  
**Storage:** Store in a cool, dry place. Store in a tightly closed container. Keep away from light

## Section 8 – Personal Protection

**Eyes:** 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.  
**Skin:** Wear appropriate protective gloves to prevent skin exposure.  
**Clothing:** Wear appropriate protective clothing to prevent skin exposure.  
**Respirators:** 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.

## 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#63968-64-9: KD4170000

**LD50/LC50:** RTECS: CAS#63968-64-9:

LD50

Oral

Rodent - rat

5576 mg/kg;

LD50

Intramuscular

Rodent – rat

2571 mg/kg;

LD50

Oral

Rodent – mouse

4228 mg/kg;

LD50

Intraperitoneal

Rodent – mouse

1558 mg/kg.

**Carcinogenicity:** Artemisnini - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

## 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:** No data available

**IMO:** No data available

**RID/ADR:** No data available

## Section 15 – Regulatory Information

### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Indication of Danger: Irritant

Risk Phrases:

R 22: Harmful if swallowed.

Safety Phrases:

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

WGK (Water Danger/Protection)

CAS#63968-64-9: 3

Canada

CAS#63968-64-9: Not available

### US Federal

#### TSCA

CAS# 63968-64-9 is not listed on the TSCA Inventory. It is for research and development use only.

## Section 16 – Additional Information

**MSDS Creation Date:** September 26, 2007

**Update:** Original

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