

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** 1-Chloroisoquinoline  
**Synonyms:**  
**Company Identification:** PI Chemicals Ltd.  
5rd Floor, 88 Cailun Road  
Zhangjiang Hi-Tech Park  
Pudong New Area, Shanghai China, 201203  
**Telephone Number:** 86-21-58953700  
**Fax Number:** 86-21-58953701

### Section 2 - Product Information

**Catalog Number:** PI-29294  
**CAS Number:** 19493-44-8  
**MDL Number:** MFCD00024134  
**EC Number:** Not available  
**Purity:** 97%

### Section 3 - Physical and Chemical Properties

**Physical state:** Crystals/liquid  
**Color:** Pale yellow  
**Odor:** Not available  
**Molecular Formula:** C<sub>9</sub>H<sub>6</sub>ClN  
**Molecular Weight:** 163.6  
**Freezing/Melting Point:** 31-36 °C(lit.)  
**Boiling Point:** 274-275 °C/768 mmHg(lit.)  
**Flash Point:** Not available  
**Autoignition Temperature:** Not available  
**Refractive Index (nD20):** Not available  
**Density:** Not available  
**Decomposition Temperature:** Not available  
**Solubility:** Not available

### Section 4 - Hazards Identification

**Eye:** Causes eye irritation.

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

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

<b>Eye:</b>	May cause eye irritation.
<b>Skin:</b>	May cause skin irritation.
<b>Ingestion:</b>	May be harmful if swallowed.
<b>Inhalation:</b>	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

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

<b>Chemical Stability:</b>	Stable under recommended temperatures and pressures.
<b>Materials to avoid:</b>	Strong oxidizing agents, Strong acids.
<b>Conditions to Avoid:</b>	Incompatible materials.
<b>Hazardous Decomposition Products:</b>	Carbon oxides, nitrogen oxides (NO <sub>x</sub> ), Hydrogen chloride gas.
<b>Hazardous Polymerization:</b>	Has not been reported.

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

<b>Handling:</b>	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.
<b>Storage:</b>	Keep container tightly closed in a dry and well-ventilated place. Handle and store under inert gas. Air sensitive. Moisture sensitive.

### **Section 8 - Personal Protection**

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

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

<b>General Information:</b>	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.
<b>Extinguishing Media:</b>	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# 19493-44-8: Not available.  
**LD50/LC50:** RTECS: Not available.  
**Carcinogenicity:** 1-Chloroisoquinoline - 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:** This substance is considered to be non-hazardous for transport.  
**IMO:** This substance is considered to be non-hazardous for transport.  
**RID/ADR:** This substance is considered to be non-hazardous for transport.

## **Section 15 - Regulatory Information**

### **European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Indication of Danger: Irritant.

Risk Phrases:

R 36/37/38: Irritating to eyes, respiratory system and skin.

Safety Phrases:

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

S 36: Wear suitable protective clothing.

WGK (Water Danger/Protection)

CAS# 19493-44-8: 3.

Canada

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CAS# 19493-44-8: Not available.

**US Federal**

**TSCA**

CAS# 19493-44-8 is not listed on the TSCA Inventory. It is for research and development use only.

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

**MSDS Creation Date:** August 17, 2008

**Update:** March 30, 2010

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