

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** 3-Chloro-4-(difluoromethoxy)phenyl isocyanate  
**Synonyms:** 2-Chloro-1-(difluoromethoxy)-4-isocyanatobenzene  
**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-26609  
**CAS Number:** 39479-97-5  
**MDL Number:** MFCD04972711  
**Purity:** 97%

### Section 3 - Physical and Chemical Properties

**Physical state:** Liquid  
**Color:** Colorless  
**Molecular Formula:** C<sub>8</sub>H<sub>4</sub>ClF<sub>2</sub>NO<sub>2</sub>  
**Molecular Weight:** 219.57  
**Freezing/Melting Point:** Not available  
**Boiling Point:** Not available  
**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.  
**Skin:** Toxic if absorbed through skin. Causes skin irritation.  
**Ingestion:** May be fatal if swallowed.  
**Inhalation:** May be fatal if inhaled. Causes respiratory tract irritation.

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

<b>General advice:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>If inhaled:</b>	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
<b>In case of skin contact:</b>	Wash off with soap and plenty of water. Consult a physician.
<b>In case of eye contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If swallowed:</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Materials to Avoid:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Carbon oxides, hydrogen chloride, hydrogen fluorine, nitrogen oxides (Nox).
<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. Store in Refrigerator.

## **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# 39479-97-5: Not available.

**LD50/LC50:** RTECS # Not available.

**Carcinogenicity:** 3-Chloro-4-(difluoromethoxy)phenyl isocyanate -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 available.

**IMO:** Not available.

**RID/ADR:** Not available.

## **Section 15 - Regulatory Information**

**Hazard Symbols:** T

**Indication of Danger:** Toxic

**Risk Phrases:**

R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R 23: Toxic by inhalation.

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

**Safety Phrases:**

S 22: Do not breathe dust.

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

## **Section 16 - Additional Information**

**MSDS Creation Date:** 10 November, 2008

**Update:** 19 July, 2011

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