

# Material Safety Data Sheet

## Section 1 – Chemical Product and Company Identification

MSDS Name:	2-Chlorobenzimidazole
Synonyms:	
Company Identification:	Shanghai 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-31005
CAS #:	4857-06-1
Purity:	98.0%
EINECS#	225-453-3

## Section 3 – Physical and Chemical Properties

Appearance:	Beige to brown crystalline powder
Odor:	Not available
Molecular Formula:	C7H5CIN2
Molecular Weight:	152.58
Freezing/Melting Point:	193.3°C
Boiling Point:	Not available
Flash Point:	Not available
Refractive Index:	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:	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:	Not available	
Materials to avoid:	Strong oxidizing agents.	
Hazardous Decomposition Products:	Hydrogen chloride, nitrogen oxides, 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.

### Section 8 – Personal Protection

- Eyes:Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's<br/>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# 4857-06-1: Not listed

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

Carcinogenicity: 2-Chlorobenzimidazole - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

## Section 12 – Environmental information

Do not empty into drains.

#### 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

Not available

### Section 15 – Regulatory Information

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

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

**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 37/39 Wear suitable gloves and eye/face protection.

Canada

CAS# 4857-06-1 is listed on Canada's NDSL List

#### **US Federal**

#### TSCA

CAS# 4857-06-1 is listed on the TSCA Inventory. It is for research and development use only.

Section 16 – Additional Information		
MSDS Creation Date:	2/19/2007	
Update:	Original	

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