

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: 3,8-Dibromophenanthroline
Synonyms:
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-35184
CAS Number: 100125-12-0
MDL Number: Not available
Purity: 97%

Section 3 - Physical and Chemical Properties

Physical state: Powder
Color: Off-white
Molecular Formula: C₁₂H₆Br₂N₂
Molecular Weight: 337.997
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

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes eye irritation.
Ingestion: Harmful if swallowed.

Section 5 - First Aid Measures

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

Section 6 - Stability and Reactivity

Chemical Stability:	Stable under recommended storage conditions.
Materials to avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	Carbon oxides, hydrogen bromine, nitrogen oxides(Nox).

Section 7 - Handling and Storage

Handling:	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.
Storage:	Keep container tightly closed in a dry and well-ventilated place.

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# 100125-12-0: Not available.

LD50/LC50: RTECS: Not available.

Carcinogenicity: 3,8-Dibromophenanthroline
–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

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 24/25: Avoid contact with skin and eyes.

S 36: Wear suitable protective clothing.

Section 16 - Additional Information

MSDS Creation Date: August 15, 2009

Update: April 21, 2011

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