

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: 1,4-Diiodobenzene
Synonyms: p-Diiodobenzene
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-10976
CAS Number: 624-38-4
MDL Number: MFCD00001054
EC Number: 210-842-2
Purity: 98%

Section 3 - Physical and Chemical Properties

Physical state: Crystalline
Color: White to beige
Molecular Formula: C₆H₄I₂
Molecular Weight: 329.9
Freezing/Melting Point: 131-133 °C(lit.)
Boiling Point: 285 °C(lit.)
Flash Point: Undetermined
Autoignition Temperature: Undetermined
Refractive Index (n_{D20}): Undetermined
Density: Undetermined
Decomposition Temperature: Undetermined
Solubility: Insoluble in water

Section 4 - Hazards Identification

Xi, Irritant

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

Section 5 - First Aid Measures

- Eye:* Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- 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 recommended temperatures and pressures.
- Materials to avoid:* Strong oxidizing agents
- Conditions to avoid:* Excessive heat and light.
- Hazardous Decomposition Products:* Carbon oxides, Hydrogen iodide.
- 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:* Keep container tightly closed in a dry and well-ventilated place. Store in dark.

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 Fighting Measures

- 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:* water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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# 624-38-4:Not available.
LD50/LC50: RTECS: Not available.
Carcinogenicity: 1,4-Diiodobenzene–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 dangerous goods.
IMO: Not dangerous goods.
RID/ADR: Not dangerous goods.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xn

Indication of Danger: Harmful

Risk Phrases:

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

Safety Phrases: 26-37

S 22: Do not breathe dust

S23: Do not breathe gas/fumes/vapor/spray

S24/25: Avoid contact with skin and eyes

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

WGK (Water Danger/Protection) 3:

CAS# 624-38-4: Highly water polluting substance

US Federal

TSCA

CAS# 624-38-4is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date: 18 April, 2011

Update: 18 April, 2011

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