

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: 4-Biphenylsulfonyl chloride
Synonyms: Biphenyl-4-sulfonyl chloride
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-30189
CAS Number: 1623-93-4
MDL Number: MFCD00078658
EC Number: 216-609-1
Purity: 98%

Section 3 - Physical and Chemical Properties

Physical state: Powder
Color: Off-white
Molecular Formula: C₁₂H₉ClO₂S
Molecular Weight: 252.72
Freezing/Melting Point: 103 - 108 °C (217 - 226 °F) - lit.
Boiling Point: Undetermined
Flash Point: Undetermined
Ignition temperature: Undetermined
Refractive Index (nD20): Undetermined
Density: Undetermined
Decomposition Temperature: Undetermined
Solubility: Undetermined

Section 4 - Hazards Identification

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause 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.
- 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. Consult a physician.
- In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes. 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, Sulphur oxides, Hydrogen chloride gas.

Section 7 - Handling and Storage

- Handling:** 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.
Be avoid of water during storage.

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#1623-93-4:Not available.
LD50/LC50: RTECS: Not available.
Carcinogenicity: 4-Biphenylsulfonyl chloride -Not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA.

Section 12 - Environmental information

Not available

Section 13 - Disposal Consideration

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging: Dispose of as unused product.

Section 14 - Transport Information

IATA: UN#3261/Class8/PG II.
IMO: UN#3261/Class8/PG II.
RID/ADR: UN#3261/Class8/PG II.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Indication of Danger: Corrosive

Risk Phrases:

R 14: Reacts violently with water.

R 34: Causes burns.

Safety Phrases:

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

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

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

WGK (Water Danger/Protection)

CAS# 1623-93-4: 3.

Canada

CAS# 1623-93-4: Not available.

Section 16 - Additional Information

MSDS Creation Date: 20 May, 2008
Update: 16 November, 2011

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