

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: 2-(Diphenylphosphino)benzaldehyde
Synonyms:
Company Identification: PI Chemicals Ltd.
5rd Floor, 88 Cailun Road
Zhangjiang Hi-Tech Park
Pudong New Area, Shanghai China, 201203
Telephone Number: 86-21-58953700
Fax Number: 86-21-58953701

Section 2 - Product Information

Catalog Number: PI-27649
CAS Number: 50777-76-9
MDL Number: MFCD00013367
EC Number: Not available
Purity: 98%

Section 3 - Physical and Chemical Properties

Physical state: Powder
Color: Yellow
Odor: Not available
Molecular Formula: C₁₉H₁₅OP
Molecular Weight: 290.30
Freezing/Melting Point: 112-115 °C(lit.)
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:	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:	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. 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 normal temperatures and pressures.
Materials to avoid:	Strong oxidizing agents.
Conditions to Avoid:	Incompatible materials.
Hazardous Decomposition Products:	Carbon oxides, Oxides of phosphorus
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.
Skin:	Wear appropriate protective gloves to prevent skin exposure.
Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Respirators:	Follow NIOSH (US) or CEN (EU) standards. 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 (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#50777-76-9: Not available

LD50/LC50: Not available.

Carcinogenicity: 2-(Diphenylphosphino)benzaldehyde - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

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: This substance is considered to be non-hazardous for transport.

IMO: This substance is considered to be non-hazardous for transport.

RID/ADR: This substance is considered to be non-hazardous for transport.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Indication of Danger: Irritant

Risk Phrases:

R36/37/38: Very Toxic by inhalation, in contact with skin and if swallowed.

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 protective clothing and gloves.

WGK (Water Danger/Protection)

CAS#50777-76-9: 3

Canada

CAS#50777-76-9: Not available

US Federal

TSCA

CAS#50777-76-9 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date: May 11, 2009

Update: May 11, 2009

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