

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Pyridine-3-carboxaldehyde  
**Synonyms:** 3-Formylpyridine;3-Nicotinaldehyde;3-Pyridinaldehyde  
**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-33908  
**CAS Number:** 500-22-1  
**MDL Number:** MFCD00006382  
**EC Number:** 207-900-4  
**Purity:** 97%

### Section 3 - Physical and Chemical Properties

**Physical state:** Liquid  
**Color:** Yellow  
**Odor:** Not available  
**Molecular Formula:** C<sub>6</sub>H<sub>5</sub>NO  
**Molecular Weight:** 107.11  
**Freezing/Melting Point:** Not available  
**Boiling Point:** 78-81 °C/10 mmHg(lit.)  
**Flash Point:** 35 °C/ 95 °F  
**Autoignition Temperature:** Not available  
**Refractive Index (nD20):** Not available  
**Density:** 1.141 g/mL at 20 °C(lit.)  
**Decomposition Temperature:** Not available  
**Solubility:** Soluble in water

### Section 4 - Hazards Identification

**Eye:** Causes eye irritation.

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<b>Skin:</b>	Causes skin irritation. Harmful if absorbed through the skin.
<b>Ingestion:</b>	May cause irritation of the digestive tract. Toxic if swallowed.
<b>Inhalation:</b>	May be harmful if inhaled. Causes respiratory tract irritation.

### ***Section 5 - First Aid Measures***

<b>Eye:</b>	May cause eye irritation.
<b>Skin:</b>	May cause skin irritation.
<b>Ingestion:</b>	May be harmful if swallowed.
<b>Inhalation:</b>	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

### ***Section 6 - Stability and Reactivity***

<b>Chemical Stability:</b>	Stable under recommended temperatures and pressures.
<b>Materials to avoid:</b>	Strong oxidizing agents, Strong acids.
<b>Conditions to Avoid:</b>	Incompatible materials.
<b>Hazardous Decomposition Products:</b>	Carbon oxides, nitrogen oxides(Nox).
<b>Hazardous Polymerization:</b>	Has not been reported.

### ***Section 7 - Handling and Storage***

<b>Handling:</b>	Avoid all direct contact with material. Wash thoroughly after handling. Have safety shower and eye wash available. Do not get in eyes, on skin, on clothing.
<b>Storage:</b>	Cold storage(approx 4 °C). Store in the closed container, in dry area. Don't store in direct sunlight. Keep under a nitrogen blanket, don't keep the container open.

### ***Section 8 - Personal Protection***

<b>Eyes:</b>	Wear appropriate protective eyeglasses.
<b>Skin:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Respirators:</b>	Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### ***Section 9 - Fire and Explosion Hazard Data***

<b>General Information:</b>	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.
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**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# 500-22-1: QS2980000.

**LD50/LC50:** RTECS: QS2980000.

**Carcinogenicity:** Pyridine-3-carboxaldehyde  
–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:** UN 1989 3/PG 3.

**IMO:** UN 1989 3/PG 3.

**RID/ADR:** UN 1989 3/PG 3.

### **Section 15 - Regulatory Information**

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

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi, C, Xn

Indication of Danger: Irritant, Corrosive, Harmful

Risk Phrases:

R 10: Flammable.

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

R 42/43: May cause sensitization by inhalation and skin contact.

R 41: Risk of serious damage to eyes.

R 34: Causes burns.

R 43: May cause sensitization by skin contact.

R 22: Harmful if swallowed.

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

**Safety Phrases:**

**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).**

**S 23: Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer).**

**S 39: Wear eye/face protection.**

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

**WGK (Water Danger/Protection)**

**CAS#500-22-1: 3.**

**Canada**

**CAS# 500-22-1: Not available.**

**US Federal**

**TSCA**

**CAS# 500-22-1 is not listed on the TSCA Inventory. It is for research and development use only.**

## ***Section 16 - Additional Information***

**MSDS Creation Date:** March 3, 2009

**Update:** April 15, 2010

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