

# Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

MSDS Name:	4-Chloro-3-fluorobenzaldehyde
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-10524
CAS Number:	5527-95-7
MDL Number:	MFCD00143288
EC Number:	Undetermined
Purity:	98.0%

### Section 3 - Physical and Chemical Properties

Physical state:	Crystals
Color:	White to light yellow
Odor:	Undetermined
Molecular Formula:	C7H4ClFO
Molecular Weight:	158.56
Freezing/Melting Point:	46-49 °C(lit.)
Boiling Point:	Undetermined
Flash Point:	96 °C/ 204.8 °F
Autoignition Temperature:	Undetermined
Refractive Index (nD20):	Undetermined
Density:	Undetermined
Decomposition Temperature:	Undetermined
Solubility:	Undetermined

# Section 4 - Hazards Identification

Eye:	Causes eye irritation.
Skin:	Causes skin irritation. Harmful if absorbed through the skin.
Ingestion:	May cause irritation of the digestive tract. Toxic if swallowed.



*Inhalation:* May be harmful if inhaled. Cause 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 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 storage conditions.
Materials to avoid:	Strong oxidizing agents
Conditions to Avoid:	Has not been reported.
Hazardous Decomposition Products:	Carbon oxides, Hydrogen chloride gas, Hydrogen fluoride
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. Keep away from sources of ignition - No smoking.

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

### Section 8 - Personal Protection

Eyes:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's	
	eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	
Skin:	Wear appropriate protective gloves to prevent skin exposure.	
Clothing:	Wear appropriate protective clothing to prevent skin exposure.	
Respirators:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN	
	149. Use a NIOSH/MSHA or European Standard EN 149 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, 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# 5527-95-7: Not availableLD50/LC50:Not availableCarcinogenicity:4-Chloro-3-fluorobenzaldehyde - Not listed as a carcinogen by ACGIH, IARC, NTP, or<br/>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:	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
Signal word: Warning
Hazard statement(s)
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation.
H335 May cause respiratory irritation
Risk Phrases:
R 22: Harmful if swallowed.
R36/37/38: Irritating to eyes, respiratory system and skin.
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.



WGK (Water Danger/Protection) CAS# 5527-95-7: 3 Canada CAS# 5527-95-7: Not available US Federal

### TSCA

CAS# 5527-95-7 is not listed on the TSCA Inventory. It is for research and development use only.

### Section 16 - Additional Information

MSDS Creation Date:	Mar 15, 2008
Update:	Sept 17, 2012

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