

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name:	2-Chloro-4H-1, 3, 2-benzodioxaphosphorin-4-one
Synonyms:	Salicyl chlorophosphite
Company Identification:	PI Chemicals Ltd.
	Room 512, Building 1
	88 Cailun Road,Zhangjiang Hi-Tech park,
	Pudong New Area, Shanghai 201203, China
Telephone Number:	86-21-58953700
Fax Number:	86-21-58953701

Section 2 - Product Information

Catalog Number:	PI-30693
CAS Number:	5381-99-7
MDL number;	MFCD00013353
Purity:	98%

Section 3 - Physical and Chemical Properties

Physical state:	Powder
Color:	White
Odor:	Not available
Molecular Formula:	C ₇ H ₄ ClO ₃ P
Molecular Weight:	202.53
Freezing/Melting Point:	36-40 °C(lit.)
Boiling Point:	127-128 °C/11 mmHg
Flash Point:	>230 °F
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 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 normal temperatures and pressures.	
Materials to avoid:	Strong oxidizing agents, water/moisture.	
Conditions to avoid:	Incompatible materials.	
Hazardous Decomposition Products: Hydrogen chloride, phosphorus oxides, carbon monoxide, carbon		
	dioxide.	
Polymerization:	Will not occur.	

Section 7 - Handling and Storage

Handling:	Avoid breathing dust, vapor, mist, or gas. 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.
Storage:	Store in cool place, Keep container tightly closed in a dry and well-ventilated place.
	Avoid sources of ignition, water/moisture.

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.	
<i>Clothing:</i> 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 s	self-contained	breathing	apparatus,	MSHA/NIOSH
	(approved or eq	uivalent) a	and protective	clothing to	prevent co	ntact 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# 5381-99-7: None listed.
LD50/LC50:	RTECS#: None listed.
Carcinogenicity:	2-Chloro-4H-1, 3, 2-benzodioxaphosphorin-4-one - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:	The toxicological properties have not been fully investigated.

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

ADR/RID:	UN 3261 8/PG 1.
IMDG:	UN 3261 8/PG 1.
IATA:	UN 3261 8/PG 1.

Section 15 - Regulatory Information

European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols: Corrosive Risk Phrases: R14: Reacts violently with water. R34: Causes burns. R37: Irritating to the respiratory system. Safety Phrases:

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical



advice.

- S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
- S43: In case of fire, use ... (indicate in the space the precise type of fire-fighting equipment. If water increases the risk add Never use water).
- S45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

WGK (Water Danger/Protection) CAS#5381-99-7: 3 Canada CAS#5381-99-7: Not available US Federal TSCA CAS# 5381-99-7 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date: Jun 17, 2009 Update: Original

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