

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: Chlorothioformic acid phenyl ester

Synonyms: Phenyl thionochloroformate; O-Phenyl chlorothionoformate

Company Identification: PI Chemicals Ltd.

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Shanghai 200127, China

 Telephone Number:
 86-21-58953700

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 86-21-58953701

Section 2 - Product Information

Catalog Number: PI-13044
CAS Number: 1005-56-7

MDL Number: MFCD00004920

EC Number: 213-736-4

Purity: 96%

Section 3 - Physical and Chemical Properties

Form: Yellow liquid
Molecular Formula: C₇H₅ClOS
Molecular Weight: 172.64

Freezing/Melting Point: Not available

Boiling Point: 81 - 83 °C (178 - 181 °F) at 8 hPa (6 mmHg)

Flash Point: 81 °C (178 °F) - closed cup

Autoignition Temperature: Not available Refractive Index (nD20): Not available

Density: 1.248 g/mL at 25 °C (77 °F)

Decomposition Temperature: Not available Solubility: Not available

Section 4 - Hazards Identification

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the

mucous membranes and upper respiratory tract.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Cause eye irritation.

Ingestion: May be harmful if swallowed. Causes burns.



Section 5 - First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out

of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing give artificial respiration.

Consult a physician.

In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and

plenty of water. Consult a physician.

In case of eye contact: Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of

water for at least 15 minutes and consult a physician.

If swallowed: Do NOT induce vomiting. 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 inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of

electrostatic charge.

Storage: Keep container tightly closed in a dry and well-ventilated place. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

Store under inert gas. Moisture sensitive. Exposure to moisture.

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# 1005-56-7: Not available.

LD50/LC50: RTECS: Not available.

Carcinogenicity: Chlorothioformic acid phenyl ester

-Not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA.

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-Number: 3265 Class: 8 Packing group: II.
 IMO: UN-Number: 3265 Class: 8 Packing group: II.
 RID/ADR: UN-Number: 3265 Class: 8 Packing group: II.

Section 15 - Regulatory Information

Hazard Symbols: C

Indication of Danger: Corrosive

Risk Phrases:

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#1005-56-7: 3.

Section 16 - Additional Information



MSDS Creation Date: August 17, 2009 Update: May 23, 2011

The above information is believed to be accurate and represents the best knowledge available to us currently. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall PI Chemicals, be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, even if PI Chemicals has been advised of the possibility of such damages.