

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: (R)-4-Chloromethyl-2,2-dimethyl-1,3-dioxolane
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-32349
CAS Number: 57044-24-3
MDL Number: MFCD00273371
Purity: 98%

Section 3 - Physical and Chemical Properties

Physical state: Liquid
Color: Colorless to light yellow
Molecular Formula: $C_6H_{11}ClO_2$
Molecular Weight: 150.6
Freezing/Melting Point: Undetermined
Boiling Point: 63 °C (145 °F) at 49 hPa (37 mmHg) - lit.
Flash Point: 51 °C (124 °F) - closed cup
Autoignition Temperature: Undetermined
Refractive Index (nD20): Undetermined
Density: 1.103 g/cm³ at 25 °C (77 °F)
Decomposition Temperature: Undetermined
Solubility: Undetermined

Section 4 - Hazards Identification

Eye: Causes eye irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Ingestion: May be harmful if swallowed.
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

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:	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed:	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, Strong acids, Strong bases, Amines, Alcohols, Mercaptans.
Conditions to Avoid:	Heat, flames and sparks.
Hazardous Decomposition Products:	Carbon oxides, Hydrogen chloride gas.
Hazardous Polymerization:	Has not been reported.

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 cool dry and well-ventilated place.

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# 57044-24-3: Not available.
LD50/LC50: RTECS # Not available.
Carcinogenicity: (R)-4-Chloromethyl-2,2-dimethyl-1,3-dioxolane
-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: 1993 Class: 3 Packing group: III.
IMO: UN-Number: 1993 Class: 3 Packing group: III.
RID/ADR: UN-Number: 1993 Class: 3 Packing group: III.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Indication of Danger: Irritant

Risk Phrases:

R 10: Flammable.

R 41: Risk of serious damage to eyes.

Safety Phrases:

S 16: Keep away from sources of ignition - No smoking.

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

S 36: Wear suitable protective clothing

WGK (Water Danger/Protection)

CAS#57044-24-3 : 3

Section 16 - Additional Information

MSDS Creation Date: 7 January, 2008

Update: 1 September, 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.

For R&D Use Only.