

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: 1-(3-Chloropropyl)-4-methylpiperazine dihydrochloride
Synonyms:
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
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Section 2 - Product Information

Catalog Number: PI-11663
CAS Number: 2031-23-4
MDL Number: MFCD00023304
EC Number: Not available
Purity: 98%

Section 3 - Physical and Chemical Properties

Physical state: Solid
Color: Off-white
Odor: Not available
Molecular Formula: C₈H₁₇ClN₂·2HCL
Molecular Weight: 249.61
Freezing/Melting Point: Not available
Boiling Point: Not available
Flash Point: Not available
Autoignition Temperature: Not available
Refractive Index (n_D20): Not available
Density: Not available
Decomposition Temperature: Not available
Solubility: Soluble in water

Section 4 - Hazards Identification

Eye: Causes eye irritation.

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

Section 5 - First Aid Measures

<i>Eye:</i>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<i>Skin:</i>	Wash off with soap and plenty of water. Consult a physician.
<i>Ingestion:</i>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<i>Inhalation:</i>	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

Section 6 - Stability and Reactivity

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

Section 7 - Handling and Storage

<i>Handling:</i>	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.
<i>Storage:</i>	Keep container tightly closed in a dry and well-ventilated place..

Section 8 - Personal Protection

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

Section 9 - Fire and Explosion Hazard Data

<i>General Information:</i>	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.
<i>Extinguishing Media:</i>	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# 2031-23-4: Not available.

LD50/LC50: RTECS: Not available.

Carcinogenicity: 1-(3-Chloropropyl)-4-methylpiperazine dihydrochloride
–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: Not available.

IMO: Not available.

RID/ADR: Not available.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Indication of Danger: Irritant

Risk Phrases:

R 36/37/38: 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# 2031-23-4: Not available.

Canada

CAS# 2031-23-4: Not available.

US Federal

TSCA

CAS# 2031-23-4 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date: May 27, 2008

Update: Jan 12, 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.