

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: Cis-1,2-Diaminocyclohexane

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-33717 CAS Number: 1436-59-5

MDL Number: MFCD00063746

Purity: 97%

Section 3 - Physical and Chemical Properties

Physical state:Clear liquidColor:Light yellowMolecular Formula: $C_6H_{14}N_2$ Molecular Weight:114.19

Freezing/Melting Point: Not available

Boiling Point: 92 - 93 °C (198 - 199 °F) at 24 hPa (18 mmHg) - lit.

Flash Point: 70 °C (158 °F) - closed cup

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

Density: 0.952 g/cm3 at 25 °C (77 °F)

Decomposition Temperature: Not available Solubility: Not available

Section 4 - Hazards Identification

Eye: Causes eye burns.

Skin: Causes skin burns. Harmful if absorbed through the skin.

Ingestion: Harmful if swallowed.

Inhalation: Harmful if inhaled. Destructive to respiratory tract.



Section 5 - First Aid Measures

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.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with

water.

Section 6 - Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: Heat, flames and sparks.

Materials to Avoid: Strong oxidizing agents, acids, Acid chlorides, Acid anhydrides.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides (NOx).

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 dry and well-ventilated place.

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

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# 1436-59-5: Not available.

LD50/LC50: RTECS # Not available.

Carcinogenicity: Cis-1,2-Diaminocyclohexane -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: 2735 Class: 8 Packing group: II.
 IMO: UN number: 2735 Class: 8 Packing group: II.
 RID/ADR: UN number: 2735 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)

Section 16 - Additional Information

MSDS Creation Date: 17 August, 2007 Update: 27 June, 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.