

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name:	(1S,2S)-2-Aminocyclohexanol HCl
Synonyms:	(1S,2S)-(+)-2-Aminocyclohexanol hydrochloride
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-35193
CAS Number:	13374-30-6
MDL Number:	MFCD09259963
Purity:	98%

Section 3 - Physical and Chemical Properties

Physical state:	Powder
Color:	White to off-white crystalline
Molecular Formula:	$C_6H_{13}NO \cdot HCl$
Molecular Weight:	151.63
Freezing/Melting Point:	Undetermined
Boiling Point:	Undetermined
Flash Point:	Undetermined
Autoignition Temperature:	Undetermined
Refractive Index (nD20):	Undetermined
Density:	Undetermined
Decomposition Temperature:	Undetermined
Solubility:	Undetermined

Section 4 - Hazards Identification

Eye:	Causes eye initation.
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

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

Section 6 - Stability and Reactivity

Chemical Stability:	Stable under recommended storage conditions.
Materials to Avoid:	Strong oxidizing agents, Carbon dioxide (CO ₂), Metals.
Hazardous Decomposition Products:	Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas.

Section 7 - Handling and Storage

Handling:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols.	
	Provide appropriate exhaust ventilation at places where dust is formed.	
Storage:	Keep container tightly closed in a dry and well-ventilated place.	
	Recommended storage temperature: 2 - 8 °C	
	Sensitive to carbon dioxide. Store under inert gas.	

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# 13374-30-6: Not available.
LD50/LC50:	RTECS # Not available.
Carcinogenicity:	(1S,2S)-2-Aminocyclohexanol HCl -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:	Not a dangerous chemical.
IMO:	Not a dangerous chemical.
<i>RID/ADR:</i>	Not a dangerous chemical.

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: Wear suitable protective clothing.

Section 16 - Additional Information

MSDS Creation Date:	6 May, 2009
Update:	13 April, 2011



PI CHEMICALS LTD.

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