

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: 4-Aminotetrahydropyran
Synonyms: Tetrahydro-2H-pyran-4-amine
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-14135
CAS Number: 38041-19-9
MDL Number: MFCD02179436
EC Number: Not available
Purity: 95.0%

Section 3 - Physical and Chemical Properties

Physical state: Oil
Color: light yellow
Odor: Not determined
Molecular Formula: C₅H₁₁NO
Molecular Weight: 101.15
Freezing/Melting Point: Not available
Boiling Point: 45 - 55 °C (113 - 131 °F) at 27 hPa (20 mmHg)
Flash Point: Not available
Autoignition Temperature: Not available
Refractive Index (n_D20): Not available
Density: 0.977 g/cm³ at 25 °C
Decomposition Temperature: Not available
Solubility: Not available

Section 4 - Hazards Identification

Signal word: Danger
Eye: Causes eye irritation.

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

Section 5 - First Aid Measures

Eye: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Get medical aid. Flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.
Ingestion: Get medical aid immediately. Wash mouth out with water.
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Section 6 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Materials to avoid: Strong oxidizing agents.
Conditions to Avoid: Heat, flames and sparks.
Hazardous Decomposition Products: Carbon oxides, nitrogen oxides (NO_x).
Hazardous Polymerization: Has not been reported.

Section 7 - Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Keep container tightly closed. Avoid contact with skin and eyes. Wash thoroughly after handling. Mechanical exhaust required. Keep away from sources of ignition - No smoking.
Storage: Store in a cool, dry place. Store in a tightly closed container. Air sensitive. Handle and store under inert gas.

Section 8 - Personal Protection

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 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, alcohol-resistant foam, dry chemical or carbon dioxide.

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# 38041-19-9: Not available

LD50/LC50: Not available.

Carcinogenicity: 4-Aminotetrahydropyran - 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	IMO	RID/ADR
Shipping Name:	Flammable liquids, n.o.s. (4-Aminotetrahydropyran)	TOXIC SOLID, ORGANIC, N.O.S. (2-Amino-4-bromobenzoic acid)	TOXIC SOLID, ORGANIC, N.O.S. (2-Amino-4-bromobenzoic acid)
Hazard Class:	3	3	3
UN Number:	1993	1993	1993
Packing Group:	1	1	1

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Pictogram: 

Signal word: Danger

Hazard statement(s)

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

Risk Phrases:

R 10: Flammable

R 22: Harmful if swallowed

R36/37/38: Irritating to eyes, respiratory system and skin

Safety Phrases:

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection

WGK (Water Danger/Protection)

CAS# 38041-19-9: 1 Slightly water polluting substance

Canada

CAS# 38041-19-9: Not available

US Federal

TSCA

CAS#38041-19-9 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date: Jan 05, 2008

Update: Dec 16, 2011

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