



Section 1 - Chemical Product and Company Identification

Product Name Spermine Tetrahydrochloride extrapure, 99%
Product Code 22310
CAS No 306-67-2
Use for Laboratory Chemicals.
Company Name Sisco Research Laboratories Pvt. Ltd.
Address 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,
Andheri (E), Mumbai - 400 099, India

Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name	%	EINECS#
306-67-2	Spermine Tetrahydrochloride	99	206-189-8

No components need to be disclosed according to the applicable regulations.

Section 3 - Hazards Identification

Risk advice to man and the environment

Not to hazardous substance or mixture(Non-Haz)

Section 4 - First Aid Measures

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin: Wash off with soap and plenty of water. Take victim immediately to hospital. 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
General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.
Notes to Physician

Section 5 - Fire Fighting Measures

Extinguishing Media

Suitable: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Protective

Equipment For Firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 - Accidental Release Measures

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing dust.

Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Methods for cleaning up: Pick up and arrange disposal without creating dust.

Keep in suitable, closed containers for disposal.



Product Code 22310

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. Normal measures for preventive fire protection.

Storage: 0 to 4°C. Keep container tightly closed in a dry and well-ventilated place.

Section 8 - Exposure Control / Personal Protection

Personal Protective Equipment

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand Protection: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

Eye Protection: Safety glasses

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Section 9 - Physical and Chemical Properties

Physical State: Powder

Molecular Formula: $C_{10}H_{26}N_4 \cdot 4HCl$

Molecular Weight: 348.18

Melting point: 310 - 311 °C

Section 10 - Stability and Reactivity

Storage stability: Stable under recommended storage conditions.

Materials to avoid:

Hazardous decomposition

Products formed under fire

conditions: - Carbon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas

Section 11 - Toxicological Information



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Acute toxicity: LD50 Oral - Rat - 129 mg/kg
LD50 Oral - Mouse - 83 mg/kg
LD50 Oral - Rabbit - 55 mg/kg
LD50 Oral - Guinea pig - 40 mg/kg
LD50 Intraperitoneal - Mouse - 156 mg/kg

Irritation and corrosion: No data available

Sensitisation: No data available

Chronic exposure: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Signs And Symptoms

Of Exposure: No data available

Route Of Exposure

Inhalation: No data available

Skin : No data available

Eyes: No data available

Ingestion: No data available

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Product: Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

Section 14 - Transport Information

IATA IMO RID/ADR

Shipping Name: Not Regulated For Transport (Non-Haz)

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation(EC)No1907/2006



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Product Code 22310

Section 16 - Other Information

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.