

SLI Technologies, Inc

Santa Rosa Industrial Park

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Updated 100128
Version 1.10

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MATERIAL SAFETY DATA SHEET

Section 1. Chemical Identification

Name: Spermidine Trihydrochloride

Section 2. Composition/Information on Ingredients

CAS #: [334-50-9]

MF: C7H19N3·3HCl

Synonyms:

N-(3-Aminopropyl)-1,4-butanediamine trihydrochloride

Spermidine hydrochloride

Section 3. Hazards Identification

Emergency Overview:

24 Hour Telephone 850-336-0995

Irritant

Irritating to eyes, respiratory system, and skin

HMIS Rating:

Health: 2

Flammability: 0

Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4. First Aid Measures:

If swallowed, wash out mouth with water provided person is conscious.

Call a physician immediately.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

In case of skin contact, immediately wash skin with soap and copious amounts of water. Call a physician.

In case of contact with eyes, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5. Fire Fighting Measures

Extinguishing Media:

Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

Special Firefighting Procedures:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s):

Emits toxic fumes under fire conditions.

Exposure Hazard(s):

Material: Irritant

Section 6. Accidental Release Measures:

Wear self-contained breathing apparatus, chemical safety goggles, rubber boots, and heavy rubber gloves.

Sweep up, place in a bag, and hold for waste disposal. Avoid raising dust.

Ventilate area and wash spill site after material pick-up is complete.

Section 7. Handling and Storage:

User Exposure:

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Provide adequate exhaust ventilation. Avoid dust and aerosol formation.

Storage:

Suitable

Keep tightly closed. Store in dry well ventilated place. Keep in a dry place.

Section 8. Exposure Controls/Personal Protection

Engineering Controls:

Safety shower and eye bath.

Mechanical exhaust required.

Personal Protective Equipment:

NIOSH/MSHA-approved respirator.

Compatible chemical-resistant gloves.

Chemical safety goggles.

Suitable laboratory apron.

General Hygiene Measures:

Wash thoroughly after handling.

Section 9. Physical and Chemical Properties

Appearance:

Color: White

Form: Powder

Odor: Pungent

Molecular Weight:

254.63 AMU

Physical Properties:

pH

3.0-7.0

Solubility in Water

1 M in H₂O, 20C, complete, colorless to light yellow

Section 10. Stability and Reactivity

Stability:

Materials to Avoid:

Strong oxidizing agents
Hazardous Decomposition Products:
Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas
Hazardous Polymerization:
Will not occur

Section 11. Toxicological Information

Acute Effects:

Skin Contact:

Causes skin irritation.

Eye Contact:

Causes eye irritation.

Inhalation:

Material is irritating to mucous membranes and upper respiratory tract.

Multiple Routes:

May be harmful by inhalation, ingestion, or skin absorption.

Signs and Symptoms of Exposure:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Toxicity Data:

Intraperitoneal – Mouse: 870 MG/KG
(LD50)

Remarks: Behavioral; convulsions or effect on seizure threshold.

Behavioral: Change in motor activity (specific assay).

Lungs, Thorax, or Respiration: Other changes.

Section 12. Disposal Considerations

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 13. Transport Information

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Proper Shipping Name: None

Non-Hazardous for Air Transport: This substance is considered to be non-hazardous for air transport.

Contact SLI Technologies, Inc., for more transportation information.

Section 14. Regulatory Information

US Classification and Label Text:

Indication of Danger:

Irritant

Risk Statements:

Irritating to eyes, respiratory system, and skin.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

United States Regulatory Information:

SARA 313 Listed: No

TSCA Inventory Item: Yes

Section 15. Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. SLI Technologies, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.