Chengdu PNP Biotech Co., Ltd.

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SAFETY DATA SHEET

Spermidine Trihydrochloride 98.0%

1. Identification

Product identifier	**Spermidine Trihydrochloride 98.0%**
CAS No. / Country of Origin	334-50-9 / China
Molecular formula / weight	C7H22Cl3N3 / 254.59
Relevant use	Raw material for dietary-supplement and food manufacture (industrial / professional use).
Supplier	Chengdu PNP Biotech Co., Ltd.

2. Hazards Identification

GHS classification: not classified as a hazardous substance according to the Globally Harmonised System.

GHS pictograms: none. Signal word: none.

The material is a food-grade powder. The principal occupational hazard is dust generation; fine dust may form a combustible dust atmosphere, so dust formation and ignition sources should be avoided.

3. Composition / Information on Ingredients

Substance	**Spermidine Trihydrochloride 98.0%**
Purity	≥ 98.0% spermidine trihydrochloride (GC, on dried basis)
CAS No.	334-50-9
Hazards	See Section 2

4. First-Aid Measures

Inhalation	**Move person to fresh air. If breathing is difficult, give oxygen. Seek medical advice if symptoms persist.**
Skin contact	Wash off with soap and plenty of water. Remove contaminated clothing. Seek medical advice if irritation develops.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing. Seek medical advice if irritation persists.
Ingestion	Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical advice.

Most important symptoms: irritation of skin, eyes and respiratory tract. Show this safety data sheet to the attending physician.

5. Fire-Fighting Measures

Suitable extinguishing media: water spray, alcohol-resistant foam, dry chemical or carbon dioxide. The substance is not readily combustible, but fine dust may form a combustible atmosphere; keep away from ignition sources. Wear self-contained breathing apparatus if necessary. Decomposition products under fire conditions may include carbon oxides.

6. Accidental Release Measures

Personal precautions: use personal protective equipment, avoid dust formation and breathing dust, ensure adequate ventilation, evacuate personnel to safe areas. Environmental precautions: prevent entry to drains and surface waters; do not release to the environment. Containment and cleaning: sweep up without creating dust, shovel into suitable closed containers for disposal. Collect spillage.

7. Handling and Storage

Handling: avoid contact with skin and eyes, avoid formation of dust and aerosols, provide exhaust ventilation where dust is formed. Storage: keep in tightly sealed containers in a cool, dry, well-ventilated area, protected from light and moisture; store away from strong oxidising agents. Shelf life under these conditions: 24 months.

8. Exposure Controls / Personal Protection

No specific occupational exposure limit is established. Engineering controls: local exhaust ventilation at dust-generating points. Personal protective equipment: dust respirator (e.g. N95/FFP2), chemical-resistant gloves, safety goggles, protective

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clothing. Hygiene measures: do not eat, drink or smoke in work areas; wash hands thoroughly after handling.

9. Physical and Chemical Properties

Appearance	White to off-white crystalline powder
Odor	Characteristic
Melting point	257 - 259 °C
Molecular weight	254.59
Particle size	NLT 90% through 80 mesh
Solubility	Freely soluble in water
pH	Not specified

10. Stability and Reactivity

Stable under normal conditions of use and storage. Incompatible materials: strong oxidising agents. Hazardous decomposition: carbon oxides under fire conditions. Avoid dust accumulation to prevent combustible dust atmospheres.

11. Toxicological Information

Based on available data, the substance is not classified as carcinogenic, mutagenic or reprotoxic. No acute-oral LD50 value is stated in the certificate of analysis. The salt is acidic in solution; avoid eye and skin contact. For symptoms, see Section 4.

12. Ecological Information

No ecotoxicity data are available for the substance as supplied. Prevent release to the environment.

13. Disposal Considerations

Dispose of in accordance with local, regional and national regulations. Do not release to drains or the environment. Contaminated packaging should be emptied and recycled or disposed of according to local waste regulations.

14. Transport Information

Not classified as dangerous goods under the applicable transport regulations. Keep the material dry; the salt is hygroscopic.

15. Regulatory Information

The substance is supplied as a dietary-ingredient raw material; regional food and health-product requirements (see the Regulatory Status Statement) apply to its intended use. No specific tariff or trade classification is asserted in this document.

16. Other Information

Revision date: Nov. 04, 2026. The information contained herein is based on the current state of knowledge and applies to the substance as supplied. It does not constitute a warranty of any kind. Users should ensure suitability for their specific application and comply with applicable laws.

Prepared by: Mia Yu Approved by: Charlie Wang Date: Nov. 04, 2026