



Mike(Wuhan) Biotechnology Co., Ltd

1801,Block B, Wanli Plaza, Friendship Avenue,  
WuChang District, WuHan, China

## Material Safety Data Sheet

### Spermidine Trihydrochloride

#### Section 1 : Chemical Product and Company Identification

**ProductName:** Spermidine Trihydrochloride

**Catalog Codes:** Not available

**Contact information**

Add: 1801, Block B, Wanli Plaza,  
Friendship Avenue, WuChang  
District, WuHan, China

**RTECS:** Not available

**TSCA:** Not available

**CI#:** Not available

**CAS:** 334-50-9

Tel: 86-27-50247191

Fax: 86-27-50247191

Email: sherley@whmkbio.com

#### Section 2: Composition and Information on Ingredients

**Composition:**

Name	Content
Spermidine Trihydrochloride	≥99%

**Toxicological Data on Ingredients:** Not applicable

#### Section 3: Hazards Identification

**Potential Acute Health Effects:** Hazardous in case of eye contact (irritant), of inhalation.  
Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available

MUTAGENIC EFFECTS: Not available

TERATOGENIC EFFECTS: Not available

DEVELOPMENTAL TOXICITY: Not available

Repeated or prolonged exposure is not known to aggravate medical condition.

#### Section 4: First Aid Measures



## Mike(Wuhan) Biotechnology Co., Ltd

1801,Block B, Wanli Plaza, Friendship Avenue,  
WuChang District, WuHan, China

### **Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

### **Skin Contact:**

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Serious Skin Contact:** Not available

### **Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available

### **Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available

## Section 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available

**Flash Points:** Not available

**Flammable Limits:** Not available

**Products of Combustion:** Not available

**Fire Hazards in Presence of Various Substances:**

Slightly flammable to flammable in presence of heat.

Non-flammable in presence of shocks.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available

Slightly explosive in presence of open flames and sparks.

**Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemical powder

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** As with most organic solids, fire is possible at elevated temperatures

**Special Remarks on Explosion Hazards:**

Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.

## Section 6: Accidental Release Measures



## Mike(Wuhan) Biotechnology Co., Ltd

1801,Block B, Wanli Plaza,Friendship Avenue,  
WuChang District, WuHan,China

### **Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### **Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## **Section 7: Handling and Storage**

### **Precautions:**

away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, appropriate the residue under a fume hood. Ground all equipment containing material. Do not breathe. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, suitable respiratory equipment. If you feel unwell, seek medical attention and show the label possible.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

## **Section 8: Exposure Controls/Personal Protection**

### **Engineering Controls:**

Use process enclosures. Local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:** Splash goggles. Lab coat, Dust respirator. Be sure to use an approved/certified respirator or equivalent gloves.

### **Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE Handling the product.

**Exposure Limits:** Not available

## **Section 9: Physical and Chemical Properties**

**Physical state and appearance:** powder. (White powder)

**Odor:**Characteristic

**Taste:** Characteristic

**Color:** white powder

**pH(1% soln/water):**Not available

**Boiling Point:** Not available

**Melting Point:** Not available

**Critical Temperature:** Not available

**Specific Gravity:** Not available

**Vapor Pressure:** Not available

**Vapor Density:** Not available

**Volatility:** Not available



## Mike(Wuhan) Biotechnology Co., Ltd

1801,Block B, Wanli Plaza, Friendship Avenue,  
WuChang District, WuHan, China

**Odor Threshold:** Not available  
**Water/Oil Dist. Coeff.:** Not available  
**Ionicity (in Water):** Not available  
**Dispersion Properties:** See solubility in water.

### Section 10: Stability and Reactivity Data

**Stability:** The product is stable.  
**Instability Temperature:** Not available  
**Conditions of Instability:** Excessive heat, dust generation  
**Incompatibility with various substances:** Not available  
**Corrosivity:** Not available  
**Special Remarks on Reactivity:** Not available  
**Special Remarks on Corrosivity:** Not available  
**Polymerization:** Will not occur.

### Section 11: Toxicological Information

**Routes of Entry:** Inhalation. Ingestion  
**Toxicity to Animals:**  
LD50: Not available  
LC50: Not available  
**Chronic Effects on Humans:** Not available  
**Other Toxic Effects on Humans:**  
Hazardous in case of inhalation.  
Slightly hazardous in case of skin contact (irritant), of ingestion.  
**Special Remarks on Toxicity to Animals:** Not available  
**Special Remark on Chronic Effects on Humans:** Not available  
**Special Remark on other Toxic Effects on Humans:**  
Potential Health Effects:  
Skin: Unlikely to cause skin irritation. Prolonged or repeated skin contact may cause dryness and cracking of the skin.  
Eyes: Can cause eye irritation.  
Inhalation: This material may produce dust. It can irritate the respiratory tract (nose, throat, airways) with soreness, dry or scratchy feeling and cough. Breathing small amounts of this material during usual industrial handling is not likely to be harmful. Breathing large amounts may be harmful.  
Ingestion: May cause sore throat, and mouth  
The toxicological properties of this substance have not been fully investigated

### Section 12: Ecological Information



## Mike(Wuhan) Biotechnology Co., Ltd

1801,Block B, Wanli Plaza,Friendship Avenue,  
WuChang District, WuHan,China

**Ecotoxicity:** Not available

**BOD5 and COD:** Not available

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:**Not available

**Special Remarks on the Products of Biodegradation:** Not available

### Section 13: Disposal Considerations

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### Section 14: Transport Information

**DOT Classification:** Not a DOT controlled material (United States)

**Identification:** Not applicable

**Special Provisions for Transport:** Not applicable

### Section 15: Other Regulatory Information

**Federal and State Regulation:** No products were found.

**Other Regulations:** Not available

**Other Classifications:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada)

**DSCL (EEC):**

R36-Irritating to eyes.

S2-keep out of the reach of children.

S46-If swallowed, seek medical advice

Immediately and show this container or label.

**HMIS (U.S.A.)**

**Health Hazard:** 1

**Fire Hazard:** 1

**Reactivity:** 0

**Personal Protection:** E

**National Fire Protection Association (U.S.A.):**

**Health:** 1

**Flammability:**1

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:**

Gloves

Lab coat

Dust respirator. Be sure to use an

Approved/certified respirator of

Equivalent



## Mike(Wuhan) Biotechnology Co., Ltd

1801,Block B, Wanli Plaza, Friendship Avenue,  
WuChang District, WuHan, China

Safety glasses

### Section 16: Other Information

**References:** Not available

**Other Special Considerations:**

This product is not sold as a food. Determination of its suitability for a particular use should be made by qualified persons familiar with its properties and composition.

**Created:** 10/05/2021 11:00 AM

**Last Updated:** 10/05/2021 11:0 AM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. User should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall MK be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if MK has been advised of the possibility of such damages.