



# Safety Data Sheet

Spermidine

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Revision Date: September 13, 2023

## SECTION 1. IDENTIFICATION

<b>Product Name:</b>	Spermidine
<b>INCI Name:</b>	<i>Spermidine Trihydrochloride, Radish Root Fermentation Filtrate</i>
<b>CAS#:</b>	124-20-9, 1686112-10-6 and 84775-94-0
<b>Recommended Use</b>	Topical Cosmetic Use
<b>Supplier:</b>	<b>Bulk Naturals Wholesale LLC.</b> 105 N Jefferson St Ava, Mo 65608, USA
<b>Telephone No. (24hrs):</b>	1-573-465-0612
<b>Emergency Telephone # :</b>	<b>1-573-465-0612(Mon-Fri: 8:00AM – 5:00PM CST)</b>

## SECTION 2. HAZARD(S) IDENTIFICATION

<b>GHS Classification:</b>	Skin Corrosion/Irritation Category 2 Serious Eye Damage/Eye Irritation Category 2 Specific target organ toxicity (single exposure) Category 3
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### GHS label elements:



<b>Signal:</b>	Danger.
<b>Hazard statement(s):</b>	
H320	Causes eye irritation.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
<b>Precautionary statement(s):</b>	
P261	Avoid breathing dust/fumes/gas/mist/vapors/spray
P264	Wash eyes thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	Wash with plenty of soap and water.
P305+P351+P338	Rinse cautiously with water for several minutes. Remove contact lenses, if present, and easy to do. If eye irritation persists: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee of their accuracy is made and we assume no liability regarding this formula or information contained herein. In every case we urge and recommend that our customers make their own tests to determine to their own satisfaction whether the product is suitable for their particular purposes under their own operating conditions. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent without the authority from the owner of this patent

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P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/containers to an approved waste disposal plant.

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Product Name	CAS Numbers	EC Numbers	Percentage
Fisetin	124-20-9	204-689-0	<=99.0%
Leuconostoc/Radish Root Ferment Lysate Filtrate	1686112-10-6 (and) 84775-94-0	-	-

## SECTION 4. FIRST AID MEASURES

<b>Eye contact:</b>	Rinse opened eye for several minutes under running water. Then consult a doctor.
<b>Skin contact:</b>	Remove contaminated clothing. Wash the area with soap and water. If irritation occurs, get medical attention.
<b>Inhalation:</b>	In case of unconsciousness place patient stably in side position for transportation.
<b>Ingestion:</b>	Drink copious amounts of water and provide fresh air. Immediately call a doctor.

## SECTION 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
<b>Precautions for firefighters:</b>	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
<b>Hazardous combustion products:</b>	No further relevant information available.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Wear protective equipment. Keep unprotected persons away.
<b>Environmental precautions:</b>	Prevent entry to sewers and public waters. Notify authorities if the product enters sewers or public waters.
<b>Methods for cleaning up:</b>	Use a neutralizing agent. Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

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## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling:

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Do not get in the eyes, on the skin, or on clothing.

### Recommended Storage Conditions:

Keep the container tightly closed in a dry and well-ventilated place.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Eyes:

Use tightly sealed goggles.

### Skin protection:

If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves.

### Respiratory protection:

No protective equipment is needed under normal use conditions.

### Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance:

Clear to slightly hazy liquid.

### Odor:

Characteristic.

### Melting Point/Range:

22–25 °C (71.6–77 °F)

### Molecular Weight:

145.3 g/mol

### Solubility:

Solubility in water.

## SECTION 10. STABILITY AND REACTIVITY

### Chemical stability:

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

### Condition to Avoid:

No decomposition if used according to specifications.

### Incompatible materials:

Oxidizing agent, Strong bases.

### Hazardous decomposition products:

carbon dioxide, carbon monoxide, nitrogen oxides

## SECTION 11. TOXICOLOGICAL INFORMATION

### Inhalation:

Prolonged inhalation to high concentrations of dust may affect lung efficiency.

### Skin/Eye:

Strong caustic effect on skin and mucous membranes in the eyes.

### Ingestion:

Swallowing will lead to a strong caustic effect on the mouth and throat and to the danger of perforation of the esophagus and stomach.

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## SECTION 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Not determined.
<b>Persistence and degradability:</b>	Not determined.
<b>Mobility:</b>	Not determined.

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## SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.

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## SECTION 14. TRANSPORT INFORMATION

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as Non-Regulated Material.

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## SECTION 15. REGULATORY INFORMATION

This product does not need to be labeled in accordance with EC Directives or respective national laws.

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## SECTION 16. OTHER INFORMATION

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