

**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03.


Printing Date: 09/02/2016

Reviewed on: 09/02/2016

**Product: *Serratia marcescens*****1 Identification**

- **Product identifier**
- **Trade name: *Serratia marcescens***
- **Product number:**  
Description:  
*Serratia marcescens* lyophilized bacteria
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Scientific Device Laboratory  
411 Jarvis Avenue  
Des Plaines, IL 60018 847-803-9495
- **Emergency telephone number:**  
For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300 or Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

**2 Hazard(s) identification**

- **Classification of the substance or mixture**
- **Label elements**  
The substance is labeled according to the Globally Harmonized System
- **Hazard Pictogram**  
GHS07 
- **Signal word:** Warning
- **Hazard-determining components of labeling:** Bacteria
- **Hazard statements**  
Harmful if swallowed H302  
Precautionary Statement  
P264 Wash hands thoroughly after use  
P270 Do not eat, drink when using product.  
P301+P312 If swallowed: Call poison center  
P330 Rinse mouth
- **Precautionary statements**  
Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves.
- **vPvB:** not applicable

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### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **CAS Description:**  
Mixture of the substances listed below with nonhazardous additions.  
*Serratia marcescens* bacteria- freeze dried

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**  
Supply fresh air, consult doctor if having complaints
- **After skin contact:**  
non irritating.
- **After eye contact:**  
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
induce vomiting.
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**  
No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**  
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Not required.
- **Environmental precautions:**  
No special measures
- **Methods and material for containment and cleaning up:**  
Wash area with bleach or other disinfectant.  
Ensure adequate ventilation.

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Dispose of the collected material according to regulations.

#### • **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

#### • **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

#### • **Information about protection against explosions and fires:**

No special measures required.

#### • **Conditions for safe storage, including any incompatibilities**

#### • **Storage:**

#### • **Requirements to be met by storerooms and receptacles:**

No special requirements.

#### • **Information about storage in one common storage facility:**

Not required.

#### • **Further information about storage conditions:**

Keep receptacle tightly sealed.

#### • **Specific end use(s)**

No further relevant information available.

## 8 Exposure controls/personal protection

#### • **Additional information about design of technical systems:**

No further data; see section 7.

#### • **Control parameters**

Exposure controls

Personal protective equipment

General protective equipment: Wash hands after performing task

Protection of hands: wear gloves

Material of gloves: Synthetic gloves

Penetration time of gloves: see manufacturer

Eye protection: wear safety glasses

## 9 Physical and chemical properties

#### • **Information on basic physical and chemical properties**

##### • **General Information**

##### • **Appearance:**

Form:

Solid

Color:

light yellow

##### • **Odor:**

none

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· <b>Odor threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b>	
· <b>Melting point/Melting range:</b>	Not applicable
· <b>Boiling point/Boiling range:</b>	Not determined.
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	300 °C (572 °F)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Not determined.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapor pressure @ 20 °C (68 °F):</b>	1.7 hPa (1 mm Hg)
· <b>Density @ 20 °C (68 °F):</b>	1.109 g/cm <sup>3</sup> (9.255 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	<b>Water:</b> Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined..
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined
· <b>Organic solvents:</b>	0.0 %
· <b>Solid content:</b>	
· <b>Solvent content:</b>	100%
· <b>Other information</b>	No further relevant information available.

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### 10. Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11. Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:**  
not an Irritant to skin and mucous membranes. May cause an allergic skin reaction.
- **on the eye:**  
No irritant effect
- **Sensitization:**  
Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations: Irritant
- **Carcinogenic categories**
  - **IARC** Substance not listed
  - **NTP** Substance not listed
  - **OSHA** Substance not listed

### 12. Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability :** No further relevant information available.
- **Bioaccumulative potential :** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**

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- **General notes:** Not hazardous in water.
- Results of **PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

### 13. Disposal considerations

- **Waste treatment methods**
  - **Recommendation:**  
Decontaminate with bleach or other disinfectant before disposal.
- **Uncleaned packagings:**
  - **Recommendation:**  
Disposal must be made according to official regulations.
  - **Recommended cleansing agent:**  
Bleach or other disinfectant.

### \* 14 Transport information

- |  |                        |
|--|------------------------|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b> <ul style="list-style-type: none"> <li>· <b>DOT, ADR, ADN, IMDG, IATA</b></li> </ul> </li> </ul>   | Non-Regulated Material |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b> <ul style="list-style-type: none"> <li>· <b>DOT, ADR, ADN, IMDG, IATA</b></li> </ul> </li> </ul>   | Non-Regulated Material |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b> <ul style="list-style-type: none"> <li>· <b>DOT, ADR, ADN, IMDG, IATA</b></li> <li>· <b>Class</b></li> <li>· <b>Packing group</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul> </li> </ul> | Non-Regulated Material |
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>  | No                     |
| <ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> </ul>  | Not applicable.        |
| <ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>   | <b>Not applicable.</b> |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>  |                        |

### 15. Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 302/324 (40CFR355.30/ 40CFR355.4):**  
All ingredients are not listed.

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<ul style="list-style-type: none"> <li>· <b>Section 313 (Specific toxic chemical listings):</b> All ingredients are not listed.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>TSCA (Toxic Substances Control Act):</b> All ingredients are not listed.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Proposition 65</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause cancer:</b> None listed.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause reproductive toxicity for females:</b> None of the ingredients are listed.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause reproductive toxicity for males:</b> None of the ingredients are listed.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause developmental toxicity:</b> None of the ingredients are listed.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Carcinogenic categories</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>EPA (Environmental Protection Agency)</b> Substance not listed</li> </ul>	
	B1
<ul style="list-style-type: none"> <li>· <b>TLV (Threshold Limit Value established by ACGIH)</b> Substance not listed</li> </ul>	
	A2
<ul style="list-style-type: none"> <li>· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b> None of the ingredients is listed.</li> </ul>	

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



- **Signal word** Warning

- **Hazard-determining components of labeling:** Bacteria

**16. Other information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of preparation / last revision** 7/21/2016

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland

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Waterways IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial

Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

. \* **Data compared to the previous version altered.**