1. Identification of The Substance/Mixture and of The Company/Undertaking

**Identification of the substance/preparation**
- **Product name**: Bacterial glycerol stock

**Company/undertaking identification**
VectorBuilder Inc.
1010 W 35th Street, Suite 515
Chicago, IL 60609, USA
Tel: (800) 517-2189 (9:00 am to 5:30 pm CST)

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

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2. Composition/Information on Ingredients

**Hazardous/non-hazardous components**
The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

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3. Hazards Identification

**GHS - classification**
- **Signal word**: Not hazardous

**Health hazards**
- Not hazardous

**Physical hazards**
- Not hazardous

**Principle routes of exposure/potential health effects**
- **Eyes**: May cause eye irritation with susceptible persons.
- **Skin**: May cause skin irritation in susceptible persons.
- **Inhalation**: May be harmful if inhaled.
- **Ingestion**: May be harmful if swallowed.

**Specific effects**
- **Carcinogenic effects**: None
- **Mutagenic effects**: None
- **Reproductive toxicity**: None
- **Sensitization**: None

**Target organ effects**
No known effects under normal use conditions.
4. First Aid Measures

**Skin contact**
Rinse with plenty of water. If symptoms arise, call a physician.

**Eye contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

**Ingestion**
Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.

**Inhalation**
Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

**Notes to physician**
Treat symptomatically.

5. Fire-fighting Measures

**Suitable extinguishing media**
Water spray. Carbon dioxide (Co2). Foam. Dry chemical.

**Special protective equipment for firefighters**
Wear self-contained breathing apparatus and protective suit.

6. Accidental Release Measures

**Personal precautions**
Use personal protective equipment.

**Methods for cleaning up**
Take up mechanically and collect in suitable container for disposal.

7. Handling and Storage

**Handling**
Always wear recommended personal protective equipment. No special handling advice required.

**Storage**
Keep in properly labelled containers.

8. Exposure Controls/Personal Protection

**Exposure limits**
We are not aware of any national exposure limit.

**Engineering measures**
Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

<table>
<thead>
<tr>
<th>Protection</th>
<th>Advice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory</td>
<td>In case of insufficient ventilation, wear suitable respiratory equipment.</td>
</tr>
<tr>
<td>Hand protection</td>
<td>Wash hand after use. Gloves recommended.</td>
</tr>
<tr>
<td>Eye protection</td>
<td>Safety glasses or goggles recommended.</td>
</tr>
<tr>
<td>Skin and body</td>
<td>Lightweight protective clothing.</td>
</tr>
<tr>
<td>Hygiene measures</td>
<td>Handle in accordance with good industrial hygiene and safety practice.</td>
</tr>
</tbody>
</table>
Environmental exposure controls
Prevent product from entering drains.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>General information</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Semisolid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>°C no data available</td>
<td>°F no data available</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>°C no data available</td>
<td>°F no data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>°C no data available</td>
<td>°F no data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>°C no data available</td>
<td>°F no data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

| Stability                     | Stable under normal conditions. |
| Materials to avoid            | No data available               |
| Hazardous decomposition products | No data available              |
| Polymerization                | Hazardous polymerisation does not occur. |

11. Toxicological Information

Acute toxicity
Not hazardous

Principle routes of exposure/potential health effects

- **Eyes**: May cause eye irritation with susceptible persons.
- **Skin**: May cause skin irritation in susceptible persons.
- **Inhalation**: May be harmful if inhaled.
- **Ingestion**: May be harmful if swallowed.

Specific effects

- **Carcinogenic effects**: None
- **Mutagenic effects**: None
- **Reproductive toxicity**: None
- **Sensitization**: None

Target organ effects
No known effects under normal use conditions.
12. Ecological Information

<table>
<thead>
<tr>
<th>Ecotoxicity effects</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobility</td>
<td>No data available</td>
</tr>
<tr>
<td>Biodegradation</td>
<td>Inherently biodegradable</td>
</tr>
<tr>
<td>Bioaccumulation</td>
<td>Does not bioaccumulate</td>
</tr>
</tbody>
</table>

13. Disposal Considerations

Dispose of in accordance with local regulations.

14. Transport Information

**IATA**

- **Proper shipping name**: Not classified as dangerous in the meaning of transport regulations.
- **Hazard Class**: No information available
- **Subsidiary Class**: No information available
- **Packing group**: No information available
- **UN-No**: No information available

15. Regulatory Information

**US Federal regulations**

- **SARA 313**: This product is not regulated by SARA.
- **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**: This product does not contain HAPs.

**US State regulations**

- **California Proposition 65**: This product does not contain chemicals listed under Proposition 65.

**WHMIS hazard class**

- **Non-controlled**: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.
16. Other Information

Reason for Revision
MSDS sections updated.

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End of Safety Data Sheet