MATERIAL SAFETY DATA SHEET

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

Identification of the substance/preparation

Product name  Bacterial stab culture

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.

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.

3. Hazards Identification

GHS - classification

Signal word
Not hazardous

Health hazards
Not hazardous

Physical hazards
Not hazardous

Principle routes of exposure/potential health effects

<table>
<thead>
<tr>
<th>Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>May cause eye irritation with susceptible persons.</td>
</tr>
<tr>
<td>Skin</td>
<td>May cause skin irritation in susceptible persons.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>May be harmful if inhaled.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed.</td>
</tr>
</tbody>
</table>

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>Type</th>
<th>Advice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory protection</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 protection</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></td>
</tr>
<tr>
<td>Odor</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point/range °C</td>
<td>No data available</td>
<td>°F no data available</td>
</tr>
<tr>
<td>Melting point/range °C</td>
<td>No data available</td>
<td>°F no data available</td>
</tr>
<tr>
<td>Flash point °C</td>
<td>No data available</td>
<td>°F no data available</td>
</tr>
<tr>
<td>Autoignition temperature °C</td>
<td>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 had data available</td>
<td></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

<table>
<thead>
<tr>
<th>Proper shipping name</th>
<th>Not classified as dangerous in the meaning of transport regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class</td>
<td>No information available</td>
</tr>
<tr>
<td>Subsidiary Class</td>
<td>No information available</td>
</tr>
<tr>
<td>Packing group</td>
<td>No information available</td>
</tr>
<tr>
<td>UN-No</td>
<td>No information available</td>
</tr>
</tbody>
</table>

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.

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

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

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End of Safety Data Sheet