# SAFETY DATA SHEET
## J-649

## 1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Code:</th>
<th>J-649</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>Jorvet Enzymatic Instrument Cleaner</td>
</tr>
<tr>
<td>Company Name:</td>
<td>Jorgensen Laboratories</td>
</tr>
<tr>
<td></td>
<td>1450 N. VanBuren Avenue</td>
</tr>
<tr>
<td></td>
<td>Loveland, CO 80538</td>
</tr>
<tr>
<td>Phone Number:</td>
<td>1 (800) 525-5614</td>
</tr>
<tr>
<td>Emergency Contact:</td>
<td>Chemtrec</td>
</tr>
<tr>
<td></td>
<td>1 (800) 424-9300</td>
</tr>
</tbody>
</table>

## 2. Hazards Identification

- **Skin Corrosion/Irritation, Category 3**
- **Serious Eye Damage/Eye Irritation, Category 2**
- **Respiratory Sensitization, Category 1**
- **Skin Sensitization, Category 1**

**GHS Signal Word:** Danger

**GHS Hazard Phrases:**
- Causes mild skin irritation.
- Causes serious eye irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause an allergic skin reaction.

**GHS Precaution Phrases:**
- Keep out of reach of children.
- Read label before use.
- Do not breathe {dust/fume/gas/mist/vapors/spray}.
- Do not get in eyes, on skin, or on clothing.
- Wear rubber gloves, chemical goggles, face shield and rubber apron.
- Wash hands thoroughly after handling.

**GHS Response Phrases:**
- **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Get immediate medical advice/attention.
- **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention.
- **IF ON SKIN:** Take off contaminated clothing and wash before reuse. Wash with plenty of water for 15 minutes. If skin irritation occurs: Get medical advice/attention.
- **IF INHALED:** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Get immediate medical advice/attention.

Medical and Transportation Emergencies contact Chemtrec 1-800-424-9300

**GHS Storage and Disposal Phrases:**
Dispose of contents/container in accordance to local, state and federal regulations.

GHS format
Hazard Rating System:

- Health: 2
- Flammability: 0
- Physical: 1
- PPE: B

HMIS:

Potential Health Effects (Acute and Chronic)

### 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>9014-01-1</td>
<td>Protease, Type VIII, from bacillus licheniformis</td>
<td>1.0 – 5.0%</td>
</tr>
<tr>
<td>10043-35-3</td>
<td>Boric acid</td>
<td>1.0 – 5.0%</td>
</tr>
<tr>
<td>102-71-6</td>
<td>Triethanolamine</td>
<td>&lt; 3.0%</td>
</tr>
</tbody>
</table>

### 4. First Aid Measures

Emergency and First Aid Procedures:

- In Case of Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Get medical advice/attention.

- In Case of Skin Contact: Wash thoroughly with fresh, tepid water for 15 minutes. Discard contaminated clothing and footwear or wash before reuse. If skin irritation occurs: Get medical advice/attention.

- In Case of Eye Contact: Immediately flush eyes with large amounts of fresh, tepid water for at least 15 minutes. Hold eyelids open to ensure complete irrigation of eye and lid tissues. Tilt head to the side and irrigate the eye from the bridge of the nose to the outside of the face. Keep run-off from entering the other eye, mouth or ear. Washing eye within the first few seconds is essential to achieve maximum effectiveness. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

- In Case of Ingestion: Do not induce vomiting. Rinse mouth with fresh, tepid water, then immediately drink 4-8 oz. of milk or water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep airways open. Keep head lower than hips to prevent aspiration into the lungs. Get medical advice/attention.

### 5. Fire Fighting Measures

- Flash Pt: No data.
- Explosive Limits: LEL: No data. UEL: No data.
- Auto ignition Pt: No data.
- Suitable Extinguishing Media: Dry chemical, CO2, sand, earth, water spray or regular foam.
Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Flammable Properties and Hazards: No data available.

6. Accidental Release Measures

Protective Precautions: Rubber or neoprene gloves, safety glasses. Wear chemical protective clothing. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Provide mechanical ventilation to disperse or ventilate the area with fresh air. NIOSH/MSHA approved respirator.
Emergency Equipment and Procedures: Absorb spill with inert material (e.g., dry sand or earth), and dispose of in accordance with applicable regulations.

7. Handling and Storage

Precautions To Be Taken: For industrial or institutional use only. Avoid contact with eyes and prolonged or repeated skin contact.
In Handling: Avoid breathing (dust, vapor, mist, gas).
Precautions To Be Taken: Keep container closed when not in use. Keep from freezing. Store away from incompatible material.
In Storing:

8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Partial Chemical Name</th>
<th>OSHA TWA</th>
<th>ACGIH TWA</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>9014-01-1</td>
<td>Protease, Type VIII, from bacillus licheniformis</td>
<td>No data.</td>
<td>CEIL: 0.00006 mg/m3</td>
<td>No data.</td>
</tr>
<tr>
<td>10043-35-3</td>
<td>Boric acid</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>102-71-6</td>
<td>Triethanolamine</td>
<td>No data.</td>
<td>TLV: 5 mg/m3</td>
<td>No data.</td>
</tr>
</tbody>
</table>

Respiratory Equipment: A respirator is not needed under normal and intended conditions of product use. If there is no proper ventilation, wear a NIOSH/MSHA approved respirator.

Specify Type: Safety glasses
Protective Gloves: Rubber or neoprene gloves
Other Protective Clothing: Wear chemical protective clothing.
Engineering Controls: Handle in accordance with good industrial hygiene and safety practice in a well ventilated area.
(Ventilation etc.): Wash hands before breaks and at the end of the workday.

9. Physical and Chemical Properties

Physical States: [X] Liquid [ ] Solid
Appearance and Odor: Appearance: Dark Green Liquid
10. Stability and Reactivity

Stability: Unstable [ ] Stable [ X ]
Conditions to Avoid: Avoid handling conditions which may allow for leaks and spills of this material. Do not permit personnel to handle this product without proper training and/or protective equipment.
Incompatibility – Materials to Avoid: Avoid contact with strong acids, bleach bases or other.
Hazardous Decomposition or Byproducts: No data available.
Possibility of Hazardous Reactions: Will occur [ ] Will not occur [ X ]
Conditions to Avoid – Hazardous Reactions: No data available.

11. Toxicological Information

Toxicological Information: Inhalation, Eye contact, Skin contact, Ingestion
Irritation or Corrosion:
Eyes: Causes serious eye irritation.
Skin: May cause skin irritation.
Ingestion: No known effects.
Inhalation: May cause nose, throat, and lung irritation.

Symptoms Related to Toxicological Characteristics:
Eyes: Redness, pain, irritation.
Skin: Redness, pain, irritation.
Ingestion: No symptoms known.
Inhalation: Respiratory irritation, cough
Chronic Toxicological Effects:  No known chronic toxicological effects.

Carcinogenicity:  NTP? No  IARC Monographs? No  OSHA Regulated? No

12. Ecological Information

General Ecological Information:  This product has no known ecotoxicological effects.

13. Disposal Considerations

Waste Disposal Method:  Dispose of contents/container in accordance to local, state and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name:  Compound Cleaner, Not Regulated

DOT Hazard Class:

UN/NA Number:

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:  Not Regulated.

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>S.302 (EHS)</th>
<th>S.304 RQ</th>
<th>S.313 (TRI)</th>
</tr>
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<tbody>
<tr>
<td>9014-01-1</td>
<td>Protease, Type VIII, from bacillus licheniformis</td>
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16. Other Information

Revision Date:  05/01/2015

GHS format
Additional Information About This Product:

Company’s Disclaimer:  While Jorgensen believes the statements set forth herein are accurate as of the date hereof, Jorgensen makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.