SECTION 1: IDENTIFICATION

Product Name: Allergenic Extracts Freeze-Dried
Product Code(s): Multiple
Use: Pharmaceutical (Biological) Product
Company: Jubilant HollisterStier
3525 N. Regal St.
Spokane, WA 99207
USA
Telephone: 1-800-992-1120
Emergency Phone: 1-800-992-1120
Chemtrec Phone: 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

Classification: Pharmaceutical Product
Materials are not chemically hazardous under 29 CFR 1910.1200 evaluation guidelines.

Label elements: May cause irritation of the eyes, skin, or respiratory tract.

Other hazards: Additional care should be exercised in handling by individuals who are allergic as product may cause symptoms ranging from mild respiratory, oral, conjunctival irritation to serious systemic reactions including anaphylaxis.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Allergenic Extracts Freeze-Dried
Hazardous component: Allergenic source material
Nonhazardous component: Mannitol 5%
Trace amounts: Sodium chloride, potassium chloride, acetic acid and beta-alanine.

SECTION 4: FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor. Remove patient from dangerous area.
Inhaled: If vapors or mist inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician immediately.
Skin: Wash with soap and plenty of water. Consult a physician.
Eye: Flush eyes with water. Consult a physician
Ingested: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician
Most important symptoms: Local: Swelling, heat, redness at injection site; Systemic: Urticaria, sneezing, itching, edema, wheezing, asthma or dyspnea, anaphylactic shock.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media: Water spray, alcohol-resistant foam, dry chemical or CO2
Specific hazards: No data available
Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors, mist, or gas. Avoid spillage. Ensure adequate ventilation. For personal protection see Section 8.
Containment and clean up: Wear gloves. Dilute with water and absorb with an inert dry material or mop. Place in an appropriate waste disposal container (see Section 13).
SECTION 7: HANDLING AND STORAGE

Safe handling: Avoid skin contact. For precautions see Section 2.
Safe storage: Keep container tightly closed in a dry and well ventilated place. Store between 2°C to 8°C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling, especially before breaks and at the end of workday.
Eye/face protection: Safety glasses with side-shields conforming to EN166.
Skin protection: Handle with gloves. Gloves should be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws.
Body protection: Choose body protection in relation to its type, concentration, and amount of dangerous substances in accordance with the specific workplace.
Respiratory protection: Not required

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Dry powder, off-white to brown in color</td>
</tr>
<tr>
<td>Upper/lower Flammability or explosive limits</td>
<td>Lower: Unknown, Upper: Unknown</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight odor to odorless</td>
</tr>
<tr>
<td>Vapor Pressure</td>
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</tr>
<tr>
<td>Odor Threshold</td>
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</tr>
<tr>
<td>Vapor Density</td>
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<tr>
<td>pH</td>
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</tr>
<tr>
<td>Melting Point/Freezing Point</td>
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<tr>
<td>Solubility</td>
<td>Soluble</td>
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<tr>
<td>Initial Boiling Point and Boiling Range</td>
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<tr>
<td>Flash Point</td>
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</tr>
<tr>
<td>Evaporation Rate</td>
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<tr>
<td>Flammability (solid, gas)</td>
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<tr>
<td>Partition Coefficient: n-octane/water</td>
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</tr>
<tr>
<td>Auto-ignition Temperature</td>
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</tr>
<tr>
<td>Decomposition Temperature</td>
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</tr>
<tr>
<td>Specific Gravity</td>
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<tr>
<td>Viscosity</td>
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<td>Explosive Properties</td>
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</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and Reactivity

Reactivity: No data available
Chemical stability: Stable under recommended storage conditions of 2°C - 8°C.
Hazardous reactions: No data available
Conditions to avoid: No data available
Incompatible materials: No data available
Hazardous decomposition products: In the event of a fire, see Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available
Inhalation: No data available
Dermal: No data available
Skin corrosion/irritation: No data available
Serious eye damage/eye irritation: Mild eye irritant
**Respiratory or skin sensitization:** Mild skin irritant and respiratory sensitizer

**Germ cell mutagenicity:** No data available

**Carcinogenicity:**
- **IARC** - No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
- **ACGIH** - No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH
- **NTP** - No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP
- **OSHA** - No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA

**SECTION 12: ECOLOGICAL INFORMATION**

- **Toxicity** No data available
- **Persistence and degradability:** No data available
- **Bio accumulative potential:** No data available
- **Mobility in soil:** No data available
- **PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
- **Other adverse effects:** No data available

**SECTION 13: DISPOSAL INFORMATION**

- **Waste treatment methods**
  Offer surplus and non-recyclable solutions to a licensed disposal company or dispose of product in accordance with local, state, and federal regulations.
- **Contaminated packaging:** Dispose of as unused packaging in accordance with local environmental, state and federal regulations.

**SECTION 14: TRANSPORT INFORMATION**

- **DOT (US):** Not dangerous goods
- **IMDG:** Not dangerous goods
- **IATA:** Not dangerous goods

**SECTION 15: REGULATORY INFORMATION**

- **SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- **SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels by SARA Title III, Section 313.
- **California Prop. 65 Components:** This product does not contain any chemicals known by the State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16: OTHER INFORMATION**

Prepared May 8, 2017
Revision 1