### Section I. Chemical Product and Company Identification

**Chemical Name:** Glucose Oxidase, from Aspergillus niger

**Catalog Number:** G0050

**Synonym:** Corylophyline

**Chemical Formula:** Not available.

**CAS Number:** 9001-37-0

**Supplier:** TCI America

9211 N. Harborgate St.
Portland OR
1-800-423-8616

**Emergency Call:** Chemtrec®
(800) 424-9300 (U.S.)
(703) 527-3887 (International)

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### Section II. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Percent (%)</th>
<th>TLV/PEL</th>
<th>Toxicology Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glucose Oxidase, from Aspergillus niger</td>
<td>9001-37-0</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Mouse LD &lt;sub&gt;50&lt;/sub&gt; (intraperitoneal) 3 mg/kg, Mouse LD &lt;sub&gt;50&lt;/sub&gt; (intravenous) 13 mg/kg, Rabbit LD &lt;sub&gt;50&lt;/sub&gt; (subcutaneous) 7500 ug/kg</td>
</tr>
</tbody>
</table>

### Section III. Hazards Identification

**Acute Health Effects:** Irritating to skin, eyes, and the respiratory system. Hygroscopic -- keep container tightly sealed. Highly toxic; do not ingest or inhale. Refrigerate.

**Chronic Health Effects:**

- **Carcinogenic Effects:** Not available.
- **Mutagenic Effects:** Not available.
- **Teratogenic Effects:** Not available.
- **Developmental Toxicity:** Not available.

Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

### Section IV. First Aid Measures

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention.

**Inhalation:** If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.

**Ingestion:** INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.

### Section V. Fire and Explosion Data

**Flammability:** May be combustible at high temperature.

**Flash Points:** Not available.

**Combustion Products:** These products include toxic carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), and sulfur oxides (SO<sub>x</sub>).

**Fire Hazards:** Not available.

**Explosion Hazards:** Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:**

- **Small Fire:** Use DRY chemical powder.
- **Large Fire:** Use water spray, fog or foam. DO NOT use water jet. Consult with local fire authorities before attempting large scale fire-fighting operations.
Section VI. Accidental Release Measures

Spill Cleanup Instructions

- Use a shovel to put the material into a convenient waste disposal container. Finish cleaning the spill by rinsing any contaminated surfaces with copious amounts of water. Consult federal, state, and/or local authorities for assistance on disposal.

Section VII. Handling and Storage

Handling and Storage Information

- IRRTANT. HYGROSCOPIC. HARMFUL. REFRIGERATE. Keep away from heat. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. Do not breathe dust. Always store away from incompatible compounds such as oxidizing agents.

Section VIII. Exposure Controls/Personal Protection

Engineering Controls

- Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

- Splash goggles. Lab coat. Dust respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Exposure Limits

- Not available.

Section IX. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state @ 20°C</td>
<td>Solid. (Light Yellow Powder.)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1 (water=1)</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>Not available.</td>
</tr>
<tr>
<td>Critical Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available.</td>
</tr>
<tr>
<td>Taste</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section X. Stability and Reactivity Data

Stability

- This material is stable if stored under proper conditions. (See Section VII for instructions)

Conditions of Instability

- Avoid excessive heat and light.

Incompatibilities

- Reactive with oxidizing agents.

Section XI. Toxicological Information

<table>
<thead>
<tr>
<th>Data</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTECS Number</td>
<td>RQ8452000</td>
</tr>
<tr>
<td>Routes of Exposure</td>
<td>Eye Contact. Ingestion. Inhalation.</td>
</tr>
<tr>
<td>Toxicity Data</td>
<td>Mouse LD subcutaneous 7500 ug/kg</td>
</tr>
<tr>
<td>Chronic Toxic Effects</td>
<td>CARCINOGENIC EFFECTS: Not available.</td>
</tr>
<tr>
<td>Acute Toxic Effects</td>
<td>Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Harmful if ingested or inhaled. Minimize exposure to this material. Severe overexposure can result in injury or death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.</td>
</tr>
</tbody>
</table>

Emergency phone number    (800) 424-9300

Continued on Next Page

Section XII. Ecological Information

Ecotoxicity
Not available.

Environmental Fate
Not available.

Section XIII. Disposal Considerations

Waste Disposal
Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

Section XIV. Transport Information

DOT Classification
Not a DOT controlled material (United States).

PIN Number
Not applicable.

Proper Shipping Name
Not applicable.

Packing Group (PG)
Not applicable.

DOT Pictograms

Section XV. Other Regulatory Information and Pictograms

TSCA Chemical Inventory (EPA)
This compound is ON the EPA Toxic Substances Control Act (TSCA) inventory list.

WHMIS Classification (Canada)
On DSL.

EINECS Number (EEC)
232-601-0

EEC Risk Statements
R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin.

Japanese Regulatory Data
Not available.

Section XVI. Other Information

Version 1.0

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, household, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangers or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.