# MATERIAL SAFETY DATA SHEET

## GLUCOSE OXIDASE ASPERGILLUS NIGER

### 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>MSDS Name:</th>
<th>Glucose Oxidase Aspergillus niger</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms:</td>
<td>beta-D-Glucose:oxygen 1-oxidoreductase; G.Od; GOx</td>
</tr>
<tr>
<td>Company Identification:</td>
<td>Sisco Research Laboratories Pvt. Ltd.</td>
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<tr>
<td>Tel:</td>
<td>+91 22 2687 2601</td>
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<td>Fax:</td>
<td>+91 22 2687 8241</td>
</tr>
<tr>
<td>Website:</td>
<td><a href="http://www.srlchem.com">www.srlchem.com</a></td>
</tr>
</tbody>
</table>

### 2 - COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>%</th>
<th>EINECS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>9001-37-0</td>
<td>Glucose Oxidase</td>
<td></td>
<td>232-601-0</td>
</tr>
</tbody>
</table>

### 3 - HAZARDS IDENTIFICATION

**Risk advice to man and the environment**
May cause sensitization by inhalation.

### 4 - FIRST AID MEASURES

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**Eyes:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin:** Wash off with soap and plenty of water. Consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Inhalation:** If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

**Notes to Physician:**

### 5 - FIRE FIGHTING MEASURES

**Extinguishing Media Suitable:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Protective Equipment For Firefighters:** Wear self contained breathing apparatus for fire fighting if necessary.

### 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
Environmental precautions: Do not let product enter drains.
Methods for cleaning up: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### 7 – HANDLING AND STORAGE

**Handling:**
Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage:**
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

### 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

**Personal Protective Equipment**

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand Protection:** Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

**Eye Protection:** Safety glasses

**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid

### 10 - STABILITY AND REACTIVITY

**Storage stability:** Stable under recommended storage conditions.

**Materials to Avoid:** Oxidizing agents

**Hazardous Decomposition Products formed under fire Conditions:** Nature of decomposition products not known.

### 11 - TOXICOLOGICAL INFORMATION

**Acute toxicity:** LD50 Intraperitoneal - mouse - 3 mg/kg

**Irritation and corrosion:** No data available

**Sensitisation:** May cause allergic respiratory reaction.

**Chronic exposure:** No data available

**Signs And Symptoms**
Of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

12 - ECOLOGICAL INFORMATION

No data available.

13 - DISPOSAL CONSIDERATIONS

Product: Observe all federal, state, and local environmental . Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

14 - TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>IATA</th>
<th>IMO</th>
<th>RID/ADR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-hazardous</td>
<td>Non-hazardous</td>
<td>Non-hazardous</td>
</tr>
</tbody>
</table>

15 - REGULATORY INFORMATION

Labelling according to EC Directives

Hazard symbols: Xn Harmful

R-phrase(s): R42 May cause sensitization by inhalation.

S-phrase(s): S22 Do not breathe dust. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16 - ADDITIONAL INFORMATION

SISCO RESEARCH LABORATORIES provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.