### 1. Product Identifier

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name</td>
<td>Glyko® O-Glycanase™ (recombinant gene from <em>Streptococcus pneumoniae</em>, expressed in <em>E. coli</em>)</td>
</tr>
<tr>
<td>Product Code</td>
<td>GK80090</td>
</tr>
<tr>
<td>CAS Number</td>
<td>NA</td>
</tr>
<tr>
<td>Other Names</td>
<td>Endo-α-N-Acetylgalactosaminidase [Endo-O-Glycosidase™, Endo-α-N-acetylgalactosaminidase, O-Glycosidase]</td>
</tr>
<tr>
<td>IUPAC</td>
<td>NA</td>
</tr>
<tr>
<td>MFCD Number</td>
<td>NA</td>
</tr>
<tr>
<td>EC/EINECS</td>
<td>NA</td>
</tr>
<tr>
<td>REACH Number</td>
<td>NA</td>
</tr>
</tbody>
</table>

### 2. Relevant identified uses of the substance or mixture and uses advised against

**Research and Development**

### 3. Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Company</th>
<th>ProZyme, Inc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>3832 Bay Center Place, Hayward, CA 94545-3619, USA</td>
</tr>
<tr>
<td>Telephone</td>
<td>+1 (510) 638-6900</td>
</tr>
<tr>
<td>Fax number</td>
<td>+1 (510) 638 6919</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:info@prozyme.com">info@prozyme.com</a></td>
</tr>
</tbody>
</table>

### 4. Emergency telephone number

+1 (760) 476 3961

### 2. Hazards Identification

#### 1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H317</td>
<td>Skin Sens. 1</td>
</tr>
<tr>
<td>R43, R42/43</td>
<td>May cause an allergic skin reaction.</td>
</tr>
</tbody>
</table>

* The risk codes have been generated using Annex VII of directive 67/548/EEC. Risk code combinations are not included.

#### 2. Label elements

**Signal Word**  
**Warning**

**Hazard Statements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
</tbody>
</table>

**Precautionary Phrases**

None Hazardous

### 3. Composition / Information on Ingredients

#### 1. Substances

Not Relevant

#### 2. Mixtures

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Product Name</th>
<th>CAS Number</th>
<th>EC/EINECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 mM</td>
<td>NaCl</td>
<td>7647-14-5</td>
<td>231-598-3</td>
</tr>
</tbody>
</table>
4. First Aid Measures

1. Description of first aid measures

- **Skin Contact**: Wash immediately with plenty of soap and water. If symptoms arise, contact a physician.
- **Eye Contact**: Irrigate with plenty of water. If symptoms arise, contact a physician.
- **Ingestion**: Wash out mouth with water. Never give anything by mouth to an unconscious person. If symptoms arise, contact a physician. Do not induce vomiting without medical advice.
- **Inhalation**: Move to a well-ventilated area and clear nose and throat. If symptoms arise, contact a physician.

2. Most important symptoms and effects

There may be mild irritation at the site of contact.

3. Indication of any immediate medical attention

Obtain medical attention in the event of any acute or delayed symptoms.

5. Firefighting measures

1. Extinguishing Media

<table>
<thead>
<tr>
<th>Suitable</th>
<th>Suitable extinguishing media for surrounding fire should be used.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable</td>
<td>NA</td>
</tr>
</tbody>
</table>

2. Special Hazards arising from the substance or mixture

No data available.

3. Advice for Fire Fighters

Wear self-contained breathing apparatus and protective clothing for fire fighting if necessary.

6. Accidental Release Measures

1. Personnel Precautions

Refer to section 8 of SDS for personal protection details.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Place in suitable container for proper disposal.

7. Handling and Storage

1. Personnel Precautions

- **Safe Handling**: Wear appropriate protective clothing (safety glasses, gloves, laboratory coat). Handle in accordance with all current regulations and standards.
- **Protection against explosions and fires**: No data available.
2. Conditions for safe storage, including any incompatibilities

- **Managing Storage Risks**: Store according to product labeling.
- **Storage Controls**: Store at 2-8°C.
- **Maintaining Integrity**: Store in the original, tightly closed container at 2-8°C.
- **Other advice**: NA

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls / Personal Protection

1. Control Parameters

Not Applicable

2. Exposure Controls

- **General protective and hygiene measures**: Wear appropriate protective clothing (safety glasses, gloves, laboratory coat). Handle and store in accordance with all current regulations and standards.
- **Engineering measures**: No special measures required.
- **Eye / Face Protection**: Safety Glasses with side-shields.
- **Hand protection**: Wear protective gloves.
- **Skin protection**: Wear appropriate protective clothing (safety glasses, gloves, laboratory coat).
- **Other personal protection advice**: NA

9. Physical and Chemical Properties

1. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>PH</td>
<td>7.5</td>
</tr>
<tr>
<td>Melting point / Freezing point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammability(solid, gas)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Solubility(ies):</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
2. Other Information
   Not available

10. Stability and Reactivity

1. Reactivity
   Not Combustable.

2. Stability
   Stable under recommended storage conditions.

3. Possibility of Hazardous Reactions
   No hazardous reactions known.

4. Conditions to Avoid
   Strong oxidizing agents, strong acids or strong bases.

5. Incompatible Materials
   No data available.

6. Hazardous Decomposition Products
   In combustion may emit fumes of carbon oxides.

11. Toxicology information

1. Information
   Acute Toxicity
   Non-hazardous but may cause irritation at site of contact in sensitive individuals.

   Skin corrosion/irritation
   Non-hazardous but possibility of allergic response arising from prolonged/repeated exposure in sensitive individuals.

   Serious eye Damage/irritation
   Non-hazardous but possibility of allergic response arising from prolonged/repeated exposure in sensitive individuals.

   Respiratory or skin sensitisation
   Non-hazardous but possibility of allergic response arising from prolonged/repeated exposure in sensitive individuals.

   Germ Cell mutagenicity
   No data available.

   Carcinogenicity
   To the best of our knowledge, the toxicological, carcinogenic and mutagenic properties have not been thoroughly investigated.

   Reproductive toxicity
   No data available.

   STOT-single exposure
   No data available.

   STOT-repeated exposure
   No data available.

   Aspiration hazard
   Non-hazardous but possibility of allergic response arising from prolonged/repeated exposure in sensitive individuals.

2. Additional
   No data available.

12. Ecological Information

1. Toxicity
   No data available.

2. Persistence and degradability
   No data available.

3. Bio-Accumulative Potential
### 4. Mobility and Soil
No data available.

### 5. Results of PBT & vPvB assessment
No data available.

### 6. Other adverse effects
No data available.

### 13. Disposal Considerations

#### 1. Waste Treatment Methods

| Disposal Operations                      | Dispose of according to current regulations and standards. |
| Disposal of Packaging                     | Dispose of as unused product.                              |

### 14. Transport Information

#### Air (ICAO)

Not classified as hazardous for transport

#### Road (ADR)

Not classified as hazardous for transport

#### Sea (IMDG)

Not classified as hazardous for transport

### 15. Safety, health and environmental regulations

#### 1. Safety, health and environmental regulations:

No data available.

#### 2. Safety Assessment

No Chemical Safety Assessment

### 16. Other Information

#### 1. Other Information:
2. Associated risk phrases according to European directive 67/548/EEC

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R42/43</td>
<td>May cause sensitization by inhalation and skin contact.</td>
</tr>
<tr>
<td>R43</td>
<td>May cause sensitisation by skin contact.</td>
</tr>
</tbody>
</table>

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.