1. Identification of the substance/preparation and of the Company/undertaking

1.1 Identification of the substance or preparation
- Commercial product name: GLUCOSE DEHYDROGENASE FAD-dependent
- Systematic name: D-Glucose: (flavin adenine dinucleotide) dehydrogenase
- E.C. number: 1.1.99.10
- Product codes: GLD3
- Source: Microorganism
- Description: Powdered enzyme preparations.

1.2 Use of the substance/preparation
This preparation is used as an active reagent in the medical diagnostics and healthcare industries. The preparation is intended for in vitro diagnostic, laboratory and research use only.

1.3 Company identification
- Responsible Company, manufacturer: BBI Solutions,
- Unit 15, Gilchrist-Thomas Estate,
- Blaenavon,
- Gwent NP4 9RL
- Information phone number: +44 (0)1495 790678

1.4 Emergency contact information
- Telephone number: +44 (0)1495 790678
E-mail: John.O'Shea@bbi.enzymes.com

2. Hazards identification
- Enzyme protein is classified as a respiratory sensitizer.
- Enzyme powders are dusty substances. Inhalation of the enzyme dust resulting from handling may induce sensitisation and cause allergic reactions in sensitised individuals.
- May cause sensitisation by skin contact.

3. Composition/Information on ingredients
- Chemical characterisation of active component: Enzyme protein.
- Hazardous ingredients: Enzyme protein (approximately 95%)
- Classification of substance: Respiratory sensitizer, H334
- Exposure limit: Not established
- CAS number: 9035-82-9
- EINECS number: 232-907-4

4. First aid measures
- Skin contact: Wash skin with plenty of water. If symptoms occur, see a doctor.
- Eye contact: Rinse eyes with plenty of water for at least 15 minutes and see an eye specialist.
- Ingestion: Rinse mouth and throat thoroughly with water. Drink water.
- Inhalation: Remove from exposure. If symptoms of irritation or sensitisation occur (shortness of breath, wheezing or laboured coughing), call a doctor.

5. Fire-fighting measures
- Protection against fire and explosions: No special requirements.
- Suitable extinguishing media: Water, foam.
- Non-compatible media: None.
- Special exposure hazards: None.
- Special protective equipment, fire-fighters: None

6. Accidental release measures
Avoid formation of dust. Take up by mechanical means, preferably by a vacuum equipped with a high efficiency filter. Flush area carefully with plenty of water. Avoid splashing and high-pressure washing. Avoid formation of aerosols. Ensure sufficient ventilation. Wash contaminated clothing.
7. **Handling and storage**
   Avoid formation of dust. Ensure good ventilation of the room when handling the preparation. Store sealed and desiccated at -15°C or below.

8. **Exposure controls/personal protection**
   Protective equipment:
   - Recommended personal protective equipment (PPE):
     - Lab coats or overalls should always be worn when handling enzyme preparations.
     - Hand protection: Impermeable gloves.
     - Eye protection: Protective glasses or eye shield.
     - Respiratory protection: Respirator with filter, CEN class A2 B2 E2 K2 P3; application: combination gas and dust.

9. **Physical and chemical properties**
   - Appearance: Yellow freeze-dried powder.
   - Odour: None
   - Other data: None relevant for safety.

10. **Stability and reactivity**
    - This substance is stable under normal conditions of use.
    - Conditions to avoid: None.
    - Materials to avoid: None.
    - Hazardous decomposition products: None.

11. **Toxicological information**
    - Inhalation of enzyme dust or contact with the skin may induce sensitisation and cause allergic reactions in sensitised individuals.

12. **Ecological information**
    - No data available. Enzyme preparations are readily biodegradable.

13. **Disposal considerations**
    - No special disposal method required, except that in accordance with local authority regulations.

14. **Transport information**
    - UN number: Not applicable.
    - Sea: Not applicable.
    - Road/Rail: Not applicable.
    - Air: Not applicable.

15. **Regulatory information**
    - Labelling: ‘Silhouette’ symbol
    - H334: May cause allergy of asthma symptoms or breathing difficulties if inhaled.
    - P260: Do not breathe dust.

**EU Directive**

**Statutory Instrument**
Chemicals (Hazard Information and Packaging) regulations.

16. **Other information**
    The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. However the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee.

Since the conditions of use are beyond the control of our Company, it is the responsibility of the user to determine the conditions of safe use of this substance. The information in this sheet does not represent analytical specifications, for which please refer to our product specification.

This product is intended for *in vitro* diagnostic, laboratory and research use only. Not for use in humans.