



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards Product Name:

Glucose Oxidase (Feed Grade) Revision Date: February 27, 2026

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifiers

- Product Name: Glucose Oxidase (Feed Grade)
- CAS-No.: 9001-37-0
- EC Number: 232-601-0
- Synonyms: GOD; β -D-glucose:oxygen 1-oxidoreductase
- Type: Microbial fermentation enzyme preparation (active protein)
- Carrier: Maltodextrin (food/feed grade)

1.2 Supplier Details

- Company: NEWAY SINOPHC TECH. LIMITED
- Address: RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
- Telephone: +86-021-50350029
- Fax: +86-021-50350029

1.3 Emergency Telephone

- Emergency Phone #: +86-021-50350029 (CHEMTREC)

1.4 Uses

- **Identified Uses:** Feed additive; improves intestinal health; reduces mold risk; enhances feed utilization in livestock, poultry and aquaculture.
- **Uses Advised Against:** Not for human pharmaceutical use; not for industrial chemical synthesis.

SECTION 2: Hazards Identification

- **GHS Classification:** Not classified as hazardous under GHS (Regulation (EC) 1272/2008).
- **Label Elements:** No pictograms; No signal word; No hazard statements.
- **Precautionary Statements:** P261, P271, P330, P280 (for sensitive individuals).
- **Health Hazards:** Generally non-toxic. May cause **mild respiratory sensitization** or skin irritation in individuals allergic to microbial proteins. Inhalation of dust may cause coughing.
- **Physical Hazards:** Non-flammable, non-explosive; enzyme activity is lost at high temperatures (>80°C).
- **Environmental Hazards:** Readily biodegradable; no toxicity to aquatic organisms; safe for the environment.

SECTION 3: Composition/Information on Ingredients

- **Mixture:** Enzyme preparation (active ingredient) + inert carrier.
- **Active Ingredient:** Glucose Oxidase (10,000 U/g), CAS 9001-37-0 (microbial source: *Aspergillus niger*).
- **Inert Ingredient:** Maltodextrin (feed grade, non-hazardous).
- **Hazardous Ingredients:** None.



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SECTION 4: First-Aid Measures

- **Inhalation:** Move to fresh air. If coughing or allergic symptoms (wheezing, rash) occur, rest and seek medical advice.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing. No special treatment unless rash develops (consult a doctor).
- **Eye Contact:** Rinse cautiously with water for 10-15 minutes. Remove contact lenses if present. If irritation persists, seek medical advice.
- **Ingestion:** Rinse mouth with water. Give plenty of water to drink. No toxic effects expected; consult a doctor only if gastrointestinal discomfort occurs.

SECTION 5: Fire-Fighting Measures

- **Extinguishing Media:** Water spray, dry chemical powder, foam, carbon dioxide (CO₂).
- **Hazardous Combustion Products:** Carbon monoxide (CO), carbon dioxide (CO₂), nitrogen oxides (NO_x) (from protein combustion).
- **Firefighter Precautions:** Wear self-contained breathing apparatus (SCBA) and full fire protective gear for large fires. Avoid inhalation of combustion fumes.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear dust mask (FFP1) and nitrile gloves. Avoid dust formation and inhalation (critical for allergy prevention).
- **Environmental Precautions:** Prevent entry into drains or water bodies (no pollution risk, but avoid unnecessary release).
- **Clean-Up Methods:** Gently sweep up the powder and collect in a sealed container for reuse or disposal. Do not use a vacuum cleaner (avoids dust dispersion).

SECTION 7: Handling and Storage

- **Handling:** Use in a well-ventilated area. Avoid dust inhalation (key to preventing sensitization). Wash hands thoroughly after handling. Do not eat, drink or smoke during operation.
- **Storage:**
 - Store in a **cool, dry, dark** warehouse (temperature 2-8°C recommended for long-term storage; ≤25°C for short-term).
 - Keep container tightly closed to prevent moisture and loss of enzyme activity.
 - Shelf Life: 24 months (2-8°C, unopened); 12 months (≤25°C, unopened).
- **Incompatibilities:** Strong acids, strong alkalis, heavy metal ions (Hg²⁺, Ag⁺), oxidizing agents (inactivate enzyme).

SECTION 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Local exhaust ventilation to reduce dust concentration; dust collection system recommended.
- **Personal Protective Equipment (PPE):**
 - Eyes: Safety glasses with side shields (prevents powder splashing).
 - Skin: Nitrile gloves and protective overalls (avoid prolonged contact).



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- Respiratory: FFP1 dust mask (mandatory for large-scale handling; FFP2 for sensitive individuals).
- **Hygiene:** Provide clean water and soap at the workplace; change clothes if contaminated.

SECTION 9: Physical and Chemical Properties

- **Appearance:** Light yellow to brownish free-flowing powder.
- **Odor:** Faint characteristic fermented odor (no pungent smell).
- **pH (1% w/v in H₂O):** 4.5 - 6.5 (optimum pH: 5.0 - 6.0).
- **Optimum Temperature:** 30 - 50°C (inactivated at >80°C).
- **Solubility:** Soluble in water (forms a stable suspension); insoluble in organic solvents.
- **Bulk Density:** 0.6 - 0.8 g/cm³.
- **Vapor Pressure:** Negligible (solid powder).
- **Flammability:** Non-flammable.

SECTION 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions. Enzyme activity decreases over time (slow at low temperatures).
- **Hazardous Reactions:** No hazardous chemical reactions; enzyme is inactivated (denatured) by high temperature, strong acids/alkalis.
- **Hazardous Decomposition Products:** No hazardous decomposition under normal use; decomposes into amino acids at high temperatures.

SECTION 11: Toxicological Information

- **Acute Toxicity:** LD₅₀ (oral, rat) > 10,000 mg/kg; practically non-toxic.
- **Skin Irritation:** Non-irritating to intact skin (rabbit test).
- **Eye Irritation:** Mild transient irritation (reversible).
- **Sensitization:** May cause respiratory sensitization in genetically susceptible individuals (rare).
- **Chronic Toxicity:** No adverse chronic effects reported in animal feed studies.

SECTION 12: Ecological Information

- **Aquatic Toxicity:** LC₅₀ (Zebrafish, 96h) > 10,000 mg/L; no toxicity to aquatic life.
- **Persistence and Degradability:** Readily biodegradable (protein is decomposed by microorganisms).
- **Bioaccumulation Potential:** None (protein is not bioaccumulated).
- **Environmental Impact:** No adverse effects on soil or water ecosystems.

SECTION 13: Disposal Considerations

- **Product Waste:** Uncontaminated waste can be reused as feed additive. Contaminated waste is disposed of as non-hazardous waste in accordance with local regulations.
- **Container Disposal:** Rinse empty containers thoroughly with water (rinse water can be added to feed); recycle or dispose of as non-hazardous waste.
- **Note:** Do not incinerate large quantities (unnecessary; enzyme is biodegradable).

SECTION 14: Transport Information

- **UN Number:** Not applicable (Non-hazardous for transport).



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- **UN Proper Shipping Name:** Not dangerous goods.
- **Transport Class:** Not applicable.
- **Packing Group:** Not applicable.
- **Marine Pollutant:** No.
- **Special Precautions:** Transport in insulated containers (2-8°C) for long-distance shipping; avoid direct sunlight, rain and high temperature (>25°C) during transport.

SECTION 15: Regulatory Information

- **China:** Complies with GB 13078 (Feed Hygiene Standard), listed in the Feed Additive Variety Catalogue (Ministry of Agriculture and Rural Affairs).
- **EU:** Complies with REACH and EC 1831/2003 (Feed Additives); approved for use in animal nutrition.
- **US:** FDA approved for animal feed use; GRAS listed for relevant applications.

SECTION 16: Other Information

- This MSDS is prepared in accordance with GB/T 16483, GB/T 17519 and GHS standards. The information is based on the best available scientific data as of February 27, 2026.
- Key Reminder: Enzyme activity is temperature-sensitive; strict adherence to storage/transport conditions is critical for product efficacy.

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