

## **Safety Data Sheet (MSDS)**

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

### **Composite Bioenzymes**

#### **SECTION 1: Identification**

##### **1.1 Product Identifiers**

- Product Name: Composite Bioenzymes
- Product Number: CBE-20260120-001
- Brand: SIGALD
- CAS-No.: N/A (Biological composite mixture)
- Synonyms: Mixed Bioenzymes; Multi-Enzyme Complex
- Chemical Family: Natural Biological Catalyst Mixture

##### **1.2 Details of the supplier of the safety data sheet**

- Company : NEWAY SINOPHC TECH. LIMITED
- 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 & Restrictions**

- Identified Uses: Wastewater treatment (organic pollutant degradation); detergent additive (stain removal); agricultural fertilizer synergist; food processing (enzymatic hydrolysis); industrial cleaning (bio-degreasing).
- Uses Advised Against: Pharmaceutical, medical, or direct oral consumption without approval.

#### **SECTION 2: Hazards Identification**

2.1 GHS Classification: Skin irritation (Category 3); Eye irritation (Category 3)2.2 GHS Label Elements

- Hazard Pictogram: None
- Signal Word: WARNING
- Hazard Statements: H316 (Causes mild skin irritation); H320 (Causes mild eye irritation)
- Precautionary Statements: P264, P280, P305+P351+P338

2.3 Physical/Chemical Hazards: Non-flammable; stable under recommended conditions; no explosion risk.2.4 Health Hazards: Mild skin/eye irritation in sensitive individuals; no acute/chronic toxicity; inhalation of mist may cause slight respiratory discomfort.2.5 Environmental Hazards:

Environmentally friendly; fully biodegradable (BOD<sub>5</sub> /COD > 0.8); no eutrophication risk; non-toxic to aquatic organisms.

#### **SECTION 3: Composition/Information on Ingredients**

- Substance/Mixture: Mixture (Biological Complex) | Main Component | Content (w/w) | Hazard Classification | |-----|-----|-----| | Protease + Amylase + Lipase + Cellulase | 5.0-8.0% | Non-hazardous | | Glycerol (Stabilizer) | 3.0-5.0% | Non-hazardous | | Sodium Benzoate (Preservative) | ≤ 0.5% | Non-hazardous | | Deionized Water | Balance | Non-hazardous |

#### **SECTION 4: First Aid Measures**

- Inhaled: Move to fresh air; no special treatment if no discomfort; consult a doctor if coughing persists.
- Skin Contact: Rinse skin with plenty of running water for 5-10 minutes; wash contaminated clothing before reuse.
- Eye Contact: Rinse eyes thoroughly with water/normal saline for 10 minutes; remove contact lenses if present; consult a doctor if irritation continues.
- Swallowed: Rinse mouth with water; do not induce vomiting; drink plenty of water to dilute; seek medical attention if abdominal discomfort occurs.

#### **SECTION 5: Firefighting Measures**

- Suitable Extinguishing Media: Water spray, foam, CO<sub>2</sub>, dry powder.
- Unsuitable Media: No restrictions.
- Special Hazards: Non-combustible; decomposes above 60°C (enzyme inactivation, no toxic fumes).
- Firefighter Advice: Wear standard fire-fighting gear; cool containers with water spray if involved in fire.

#### **SECTION 6: Accidental Release Measures**

- Personal Precautions: Wear nitrile gloves and safety glasses for large spills.
- Environmental Precautions: Prevent runoff into sewers/rivers; product is biodegradable, no long-term pollution.
- Cleanup: Small spill - absorb with inert materials (sand, vermiculite) and dispose as non-hazardous waste; large spill - dike and transfer to sealed containers for reuse or disposal.

#### **SECTION 7: Handling and Storage**

- Handling: Operate in well-ventilated area; avoid splashing; no special safety measures for routine use; avoid contact with strong acids/bases.
- Storage: Cool, dark, well-ventilated warehouse (5-25°C); keep container tightly closed; avoid direct sunlight and high temperature (>30°C); store separately from strong oxidizing agents.
- Shelf Life: 12 months (unopened, specified conditions); 3 months after opening.

#### **SECTION 8: Exposure Controls/Personal Protection**

- PPE: Safety glasses and nitrile gloves for large-scale handling; respiratory protection not required under normal conditions.

- Engineering Controls: Basic ventilation sufficient; no special equipment needed.

## **SECTION 9: Physical and Chemical Properties**

- Physical State: Liquid; Color: Light yellow to brown; Odor: Mild fermented odor
- pH (25°C): 5.5-7.5; Density (25°C): 1.03-1.08 g/cm<sup>3</sup>; Viscosity (25°C): 30-80 mPa·s
- Boiling Point: 100-105°C (water evaporation); Flash Point: > 100°C; Solubility: Fully miscible with water
- Decomposition Temperature: >60°C (enzyme inactivation); Vapor Pressure (25°C): <0.5 hPa

## **SECTION 10: Stability and Reactivity**

- Stability: Stable under recommended storage/handling; enzyme activity decreases at high temperature/pH extremes.
- Incompatibilities: Strong acids (pH <4), strong bases (pH >9), high-concentration oxidizing agents.
- Hazardous Decomposition Products: No hazardous decomposition products; enzyme denatures at high temperature.

## **SECTION 11: Toxicological Information**

- Acute Toxicity: Oral (Rat, LD<sub>50</sub>): > 10,000 mg/kg; Dermal (Rabbit, LD<sub>50</sub>): > 20,000 mg/kg
- Skin/Eye Irritation: Mild irritation, reversible within 24-48 hours.
- Carcinogenicity: Not classified as carcinogenic by IARC, EPA, or NTP.

## **SECTION 12: Ecological Information**

- Fish (Zebrafish, LC<sub>50</sub>): > 5000 mg/L (96h); Biodegradability: Biodegradation rate >90% in 28 days.

## **SECTION 13: Disposal Considerations**

- Product Waste: Classified as non-hazardous waste; dilute with water and discharge to municipal wastewater treatment systems or dispose via licensed facilities.
- Packaging Waste: Rinse thoroughly; recycle as non-hazardous waste or dispose of as municipal solid waste.

## **SECTION 14: Transport Information**

- UN Number: - (Not dangerous goods)
- Transport Class: -; Packaging Group: -
- UN Proper Shipping Name: Non-dangerous goods (Composite Bioenzymes)
- Special Precautions: Transport at 0-30°C; avoid collision, direct sunlight, and extreme temperatures.

## **SECTION 15: Regulatory Information**

- National Regulations: Complies with China Hazardous Chemical Safety Management Regulation (non-hazardous); meets industrial bioenzyme standards.



## NEWAY SINOPHC TECH. LIMITED

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- International Regulations: GHS Rev.9 (Irritation 3); REACH (not in SVHC List); TSCA (listed as natural enzymes).

### **SECTION 16: Other Information**

- Revision Date: 20 JAN 2026
- Disclaimer: Based on current scientific knowledge; supplier not liable for improper use.

