



# 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)

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

#### 1.1 Product Identifiers

- Product Name: White Kidney Bean Extract
- Product Number: WBE-20260205
- Brand: SIGALD
- CAS-No.: 85085-22-9
- Synonyms: Phaseolus Vulgaris Extract; White Bean Extract; a-Amylase Inhibitor Extract

#### 1.2 Details of the supplier

- 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 Relevant Identified Uses and Uses Advised Against

- Identified Uses: Health care product raw material; food additive (weight management); dietary supplement ingredient; natural enzyme inhibitor.
- Uses Advised Against: Not for direct oral consumption in bulk; not for use in infant food; no use in low-sugar food without formulation adjustment.

### SECTION 2: Hazards Identification

| Summary of Emergency Measures | Off-white fine powder. Mild eye irritation if direct contact; no skin/respiratory irritation; no acute toxicity in normal use. After inhalation: Move to fresh air if discomfort occurs. In case of skin contact: Rinse with water for 5 minutes. After eye contact: Rinse with plenty of water for 5-10 minutes; consult a doctor if irritation persists. After swallowing: Rinse mouth with water; no vomiting. Non-combustible. No explosion risk. | | --- |

#### 2.1 GHS Classification

- Eye irritation (Category 2A)

2.2 GHS Label Elements

- Hazard Pictogram: (Exclamation mark)
- Signal Word: **Warning**
- Hazard Statements: H319: Causes serious eye irritation
- Precautionary Statements:
  - P264: Wash hands thoroughly after handling
  - P280: Wear protective eye/face protection
  - P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
  - P337+P313: If eye irritation persists: Get medical advice/attention

2.3 Physical and Chemical Hazards Non-combustible; no explosive/oxidizing properties; no hazardous physical/chemical hazards under normal use.

2.4 Health Hazards Mild eye irritation only; no acute/chronic toxicity; no mutagenicity/carcinogenicity; no target organ toxicity in normal use.

2.5 Environmental Hazards Environmentally friendly; fully biodegradable; non-toxic to aquatic organisms; no bioaccumulation potential; no adverse environmental effects.

2.6 Other Hazards No additional hazards identified.

### SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Natural plant extract (protein complex) | 3.1 Main Components | Phaseolus vulgaris L. Seed Extract ( $\alpha$ -Amylase Inhibitor  $\geq 20,000$  U/g) | | --- | --- | | Formula | Protein complex ( $\alpha$ -Amylase Inhibitor) | | Molecular Weight | 10000-50000 Da (protein complex) | | CAS-No.: | 85085-22-9 | | EC-No.: | 285-365-7 |

#### Hazardous Ingredients

表格

Component	Classification	Concentration (w/w)
White Kidney Bean Extract ( $\alpha$ -Amylase Inhibitor)	Non-hazardous (Eye Irrit. 2A)	100%

### SECTION 4: First Aid Measures

#### 4.1 First-Aid Measures

- Inhaled: Move to fresh air; rest if discomfort occurs; no special treatment needed.
- Skin Contact: Rinse with running water for 5 minutes; remove contaminated clothing and wash before reuse.
- Eye Contact: Rinse thoroughly with running water for 5-10 minutes; consult a doctor if irritation persists over 24h.
- Swallowed: Rinse mouth with water; do not induce vomiting; drink a small amount of water if needed; no medical attention required unless discomfort occurs.

#### 4.2 Most Important Symptoms

- Acute Effects: Mild eye redness/tearing (reversible within 24h); no other acute symptoms.
- Delayed Effects: No known delayed toxic effects based on current data.

4.3 Immediate Medical Attention No specific medical treatment required; treat symptomatically if irritation persists.

4.4 Notes to Physician Inform the physician of the product composition (white kidney bean extract/ $\alpha$ -amylase inhibitor) if consultation is needed.

### SECTION 5: Firefighting Measures

#### 5.1 Extinguishing Media

- Suitable: Water spray, foam, CO<sub>2</sub>, dry powder.
- Unsuitable: No limitations of extinguishing agents.



# 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>

5.2 Special Hazards Non-combustible; no hazardous combustion gases; thermal decomposition releases non-toxic CO<sub>2</sub>, water and protein residue.

5.3 Advice for Firefighters Wear standard fire-fighting gear; dust mask recommended to avoid inhalation of combustion powder; keep containers cool with water spray if exposed to fire.

## SECTION 6: Accidental Release Measures

6.1 Personal Precautions Wear basic PPE (nitrile gloves, safety goggles, dust mask); ensure good ventilation in the spill area; avoid powder dispersion.

6.2 Environmental Precautions No special environmental precautions; the product is fully biodegradable; prevent large spills from entering water bodies (use sand to contain if needed).

### 6.3 Cleaning Up

- Small Spill: Sweep up with a clean dry brush; transfer to a sealed HDPE container for reuse or disposal.
- Large Spill: Contain with plastic dikes; transfer to sealed drums with a clean shovel; clean the spill area with a damp cloth to avoid dust dispersion.

6.4 Reference For disposal, see Section 13.

## SECTION 7: Handling and Storage

### 7.1 Safe Handling

- Operate in a well-ventilated, low-dust area; use closed handling equipment to avoid powder dispersion.
- Avoid contact with high temperature ( $\geq 50^{\circ}\text{C}$ ), strong acids/alkalis and proteases to prevent enzyme activity loss.
- Hygiene Measures: Wash hands thoroughly with soap and water after handling; no eating/drinking/smoking in the work area; avoid contact with food/drinks.

### 7.2 Safe Storage

- Storage Conditions: Store in a cool, dry, dark warehouse ( $\leq 20^{\circ}\text{C}$ ); control humidity  $\leq 65\%$ ; keep container tightly sealed and vacuum-packed.
- Incompatibilities: Proteases (e.g., pepsin, trypsin), strong acids ( $\text{pH} < 3$ ), strong bases ( $\text{pH} > 9$ ), high temperature.
- Storage Class (TRGS 510): 13 (Non-Hazardous Solids)
- Shelf Life: 24 months (unopened, under specified storage conditions); 6 months after opening (resealed, same conditions).

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

表格

Component	CAS-No.	Value	Control Parameters	Basis
White Kidney Bean Extract	85085-22-10 9	10 mg/m <sup>3</sup>	TWA (Respirable dust)	EU/China occupational exposure limits

### 8.2 Exposure Controls



# 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>

- Engineering Controls: Basic local exhaust ventilation with dust collection for large-scale processing; good general ventilation in the workshop.
- Personal Protective Equipment (PPE):
  - Eye/Face Protection: Safety goggles (mandatory for all handling); face shield recommended for large-scale powder processing.
  - Skin Protection: Nitrile rubber gloves ( $\geq 0.11$  mm); lab coat for routine operation.
  - Respiratory Protection: Disposable dust mask for high-dust environments; no respiratory protection needed for normal low-dust handling.

## SECTION 9: Physical and Chemical Properties

9.1 Basic Physical and Chemical Properties  
a) Physical State: Fine powder  
b) Color: Off-white to light yellow  
c) Odor: Faint natural bean scent  
d) Melting Point/Freezing Point: N/A (protein complex)  
e) Flammability (Solid): Non-combustible  
f) Flash Point: Not applicable  
g) Decomposition Temperature:  $\geq 50^{\circ}\text{C}$  (enzyme activity loss)  
h) pH Value ( $25^{\circ}\text{C}$ ): 5.5-7.5 (1% aq. solution)  
i) Water Solubility: Soluble in water; insoluble in organic solvents (ethanol/acetone)  
j) Bulk Density: 0.40-0.60 g/cm<sup>3</sup>  
k) Particle Size: 95% passing 80 mesh  
l) Explosive Properties: Not explosive  
m) Oxidizing Properties: None  
n) Enzyme Activity:  $\geq 20,000$  U/g (α-Amylase Inhibitor)

## SECTION 10: Stability and Reactivity

10.1 Chemical Stability: Stable under recommended storage conditions ( $\leq 20^{\circ}\text{C}$ , dry, sealed); enzyme activity remains over 90% within shelf life.  
10.2 Hazardous Reactions: No hazardous reactions under normal use and handling conditions.  
10.3 Conditions to Avoid: High temperature ( $> 50^{\circ}\text{C}$ ), direct sunlight, high humidity ( $> 65\%$ ), strong acids/alkalis, proteases.  
10.4 Incompatible Materials: Pepsin, trypsin, concentrated sulfuric acid, sodium hydroxide ( $\geq 10\%$ ), hydrogen peroxide.  
10.5 Hazardous Decomposition Products: No hazardous decomposition products; thermal decomposition at high temperature releases only non-toxic CO<sub>2</sub>, water and protein hydrolysate.

## SECTION 11: Toxicological Information

### 11.1 Toxicological Effects

- Acute Toxicity: Oral (Rat, LD<sub>50</sub>)  $> 10000$  mg/kg; Dermal (Rabbit, LD<sub>50</sub>)  $> 10000$  mg/kg; Inhalation (Rat, LC<sub>50</sub>)  $> 20$  mg/m<sup>3</sup> (4h exposure).
- Skin Corrosion/Irritation: No skin irritation (Rabbit, 24h exposure).
- Serious Eye Damage/Eye Irritation: Category 2A (mild irritation, reversible within 24h; Rabbit, 24h exposure).
- Respiratory/Skin Sensitization: No sensitizing effects (Guinea pig test).
- Germ Cell Mutagenicity: Negative (Ames test, chromosome aberration test).
- Carcinogenicity: Not classified as carcinogenic by IARC/EPA/NTP.
- Reproductive Toxicity: No reproductive harm at normal exposure levels (animal studies).
- Specific Target Organ Toxicity: No target organ toxicity in normal use.
- Aspiration Hazard: Low (fine powder, no aspiration risk in normal use).

## SECTION 12: Ecological Information

12.1 Toxicity: Zebrafish LC<sub>50</sub> >5000 mg/L (96h); Daphnia EC<sub>50</sub> >5000 mg/L (48h); Algae EC<sub>50</sub> >5000 mg/L (72h).12.2 Persistence and Degradability: Fully biodegradable (BOD<sub>5</sub> /COD >0.8) in aquatic and soil environments; degrades completely within 10 days by microbial action.12.3 Bioaccumulative Potential: No bioaccumulation potential (protein complex, rapid biodegradation); no accumulation in aquatic/terrestrial organisms.12.4 Mobility in Soil: Low mobility; binds to soil organic matter and biodegrades rapidly.12.5 PBT/vPvB Assessment: Not classified as PBT/vPvB.12.6 Endocrine Disrupting Properties: No data available; no known endocrine-disrupting effects.12.7 Other Adverse Effects: No known adverse ecological impacts; the product is a natural plant extract with no environmental pollution risk.

## SECTION 13: Disposal Considerations

### 13.1 Waste Treatment Methods

- Product Waste: Classified as non-hazardous organic waste; can be incinerated at ordinary waste incineration facilities or composted (biodegradable); no hazardous waste treatment required.
- Packaging Waste: Rinse packaging with clean water; dispose of as non-hazardous plastic waste or recycle; no special disposal requirements.13.2 Disposal Regulations: Comply with local, national and international solid waste disposal regulations; can be disposed with municipal solid waste after proper treatment.

## SECTION 14: Transport Information

14.1 UN Number: ADR/RID: -; IMDG: -; IATA-DGR: -14.2 UN Proper Shipping Name: Not dangerous goods (all regulations)14.3 Transport Hazard Class: - (all regulations)14.4 Packaging Group: - (all regulations)14.5 Environmental Hazards: No (all regulations)14.6 Special Precautions: Transport at ≤20°C; use sealed, vacuum-packed packaging to avoid moisture/dust/sunlight; avoid collision and breakage; do not transport with high-temperature cargo, strong acids/alkalis or proteases.14.7 Incompatible Materials: Avoid transport with proteases, strong acids/alkalis, oxidizing agents and high-temperature cargo.

## SECTION 15: Regulatory Information

### 15.1 National/International Regulations

- China: Hazardous Chemical Safety Management Regulation (Non-hazardous); Food Safety Law; Cosmetic Supervision and Administration Regulation.
- International: GHS Rev.9 (Eye Irrit.2A); REACH (EU, registered); TSCA (US, listed); USP/EP (compliant with plant extract standards); GRAS certified (US, for food use).

15.2 Other Regulations: Comply with local food/health care product manufacturing and GMP regulations; comply with occupational exposure limits for plant extract dust.

## SECTION 16: Other Information



## 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>

---

- Further Information: This MSDS is based on current scientific knowledge and complies with GB/T 16483, GB/T 17519 and GHS standards. Supplier is not liable for damage caused by improper use or non-compliance with safety precautions.
- Revision Date: 05 FEB 2026

