

SAFETY DATA SHEET

According to OSHA HazCom 2012 (29 CFR 1910.1200) / UN GHS Rev. 8

DATE PREPARED: June 20, 2026

DOCUMENT NUMBER: ZGHFNBFD-20260623-SDS

SECTION 1 — IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT IDENTITY (As Used on Label and List) Product Name: Water Storing Polymer Crystals (Water Retaining Agent)**Common Name:** Super Absorbent Polymer (SAP)**Trade Mark / Brand:** ZGHFNBFD**RECOMMENDED USE AND RESTRICTIONS ON USE Recommended Use:** Agricultural, horticultural water-retaining agent and soil conditioner.**Restrictions on Use:** For soil application only. Not for human consumption or food additive.**MANUFACTURER/SUPPLIER INFORMATION Company:** ZHEJIANG FUNDER IMPORT AND EXPORT TRADE CO., LTD.**Address:** Room 512, Kaitou Business Center, No. 369 Huitong Road, Cicheng Town, Jiangbei District, Ningbo City, Zhejiang Province, China**Emergency Telephone Number:** +86-18668860636 (24/7 Service)**Fax Number for Information:** +86-574-89663648**Contact Person:** Kent

SECTION 2 — HAZARDS IDENTIFICATION

2.1 GHS Classification: Not a hazardous substance or mixture according to GHS criteria / OSHA HazCom 2012.**2.2 GHS Label Elements Pictogram:** None / Not applicable**Signal Word:** None / Not applicable**Hazard Statements:** None (Non-hazardous under normal usage conditions).**Precautionary Statements:**

P261: Avoid breathing dust.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/eye protection if dust is generated.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

This product is a mixture made from the following materials:

Ingredient Name	CAS No.	Weight %
Potassium polyacrylate - Acrylamide copolymer	31212-13-2	87%
Attapulgate	12174-11-7	13%

SECTION 4 — FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if irritation persists.**Skin:** Wash off with soap and plenty of water. Call a physician if irritation develops or persists.**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration. Get medical attention if respiratory discomfort occurs.**Ingestion:** Never give anything by mouth to an unconscious person. Do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth with water and seek immediate medical attention.

SECTION 5 — FIRE-FIGHTING MEASURES

Flash Point: Not applicable.**Auto-Ignition Temperature:** Not applicable.**Flammability Limits in Air:** Not applicable.**Fire and Explosion Hazards:** Material is nonflammable. High dust concentrations in air may pose a minimal dust explosion risk.**Extinguishing Media:** Dry chemical, water fog, foam, carbon dioxide.**Fire-Fighting Equipment / Instructions:** Wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Evacuate area and fight fire from a safe distance.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate personal protective equipment as specified in Section 8. Avoid generating dust. Caution: spilled material becomes extremely slippery when wet.**Environmental Precautions:** Non-hazardous in ordinary use. Prevent large spills from entering drinking water supplies or waterways.**Methods of Clean-up:** Sweep up and scoop spilled material into an appropriate container (e.g., fiberboard drum or carton) for disposal. Dispose of in accordance with local, state, and federal regulations.

SECTION 7 — HANDLING AND STORAGE

Handling: Avoid contact with eyes and skin. Avoid breathing dust. Wear protective clothing and gloves as necessary. Wash thoroughly after handling.

Storage: Store in a cool, dry, and well-ventilated area away from direct sunlight, excessive heat, and humidity. Keep container tightly closed when not in use. Keep separate from strong acids, strong bases, and strong oxidizing agents.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: OSHA PEL: N.E. | ACGIH TLV-TWA: N.E.

Engineering Controls: Good general ventilation (typically 10 air changes per hour) should be used.

Respiratory Protection: Approved dust respirator is recommended if airborne dust concentrations exceed exposure limits or during prolonged handling.

Eye Protection: Safety glasses with side-shields or dust goggles if dust is generated.

Skin and Body Protection: Protective gloves and suitable protective clothing to minimize skin contact.

Work Hygienic Practices: Wash thoroughly after handling and before eating, drinking, or smoking.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State & Appearance: Solid, yellow-brown granule.

Odor: Weak odor.

pH: 6.0–8.5 (1% aqueous solution)

Melting Point / Freezing Point: Decomposes before melting.

Boiling Point: Not applicable.

Flash Point: Not applicable.

Evaporation Rate: Not applicable.

Flammability: Non-flammable.

Vapor Pressure / Vapor Density: Not applicable.

Specific Gravity (Water = 1): 1.34 g/cm³

Solubility in Water: Insoluble in water; swells rapidly into gel form.

Partition Coefficient (n-octanol/water): Not applicable.

Auto-ignition Temperature: Not applicable.

Decomposition Temperature: >200 °C

VOC: 0%

SECTION 10 — STABILITY AND REACTIVITY

10.1 Reactivity: Non-reactive under normal conditions of use, storage, and transport.

10.2 Chemical Stability: Stable under recommended storage and handling conditions.

10.3 Possibility of Hazardous Reactions: No dangerous reactions known under conditions of normal use.

10.4 Conditions to Avoid: Excessive heat, direct sunlight, moisture, and high humidity.

10.5 Incompatible Materials: Strong acids, strong bases, and strong oxidizing agents.

10.6 Hazardous Decomposition Products: Carbon oxides, nitrogen oxides, and potassium oxides produced under fire conditions.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral RAT LD50 > 5000 mg/kg (low acute toxicity).

Skin Corrosion / Irritation: Non-irritating to skin.

Serious Eye Damage / Irritation: May cause mechanical eye irritation due to dust.

Respiratory or Skin Sensitization: Not expected to be a sensitizer.

Germ Cell Mutagenicity: Not reported / Not classified.

Carcinogenicity: Not listed as a carcinogen by IARC, NTP, or OSHA.

Reproductive Toxicity: None reported / Not classified.

STOT — Single Exposure: May cause respiratory tract irritation if dust is inhaled.

STOT — Repeated Exposure: None reported / Not classified.

Aspiration Hazard: Not applicable.

SECTION 12 — ECOLOGICAL INFORMATION

Environmental Toxicity: Not expected to produce significant adverse environmental effects under recommended usage conditions.

Mobility in Soil: Insoluble in water; minimal soil mobility.

Bioaccumulative Potential: Not expected to bioaccumulate.

Persistence and Degradability: Biodegradable over time in soil environments.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Recover or recycle if possible. Product is assimilated to urban solid waste. Disposal must be in accordance with regional, national, and local laws and regulations. Prevent direct entry into sewers or waterways.

SECTION 14 — TRANSPORT INFORMATION

DOT (US Department of Transportation): Not regulated as hazardous material.

IMO / IMDG (Maritime): Not regulated.

IATA / ICAO (Air Transport): Not regulated.

TDG Classification: Non-regulated material.

UN Number / Proper Shipping Name: Not applicable.

SECTION 15 — REGULATORY INFORMATION

NFPA Hazard Rating: Health: 0 | Flammability: 0 | Instability: 1 | Special: None

TSCA Inventory Status: All chemical components are listed on TSCA Inventory.

CERCLA: No reportable quantity.

SARA Title III (302/311/312/313): No listed ingredients subject to reporting.

OSHA Hazard Communication Standard 29 CFR 1910.1200: Non-hazardous mixture.

SECTION 16 — OTHER INFORMATION

Version No.: 2.0 (GHS Compliant)

Revision Date: June 20, 2026

Reason for Revision: Complete update to OSHA HazCom 2012 / UN GHS Rev. 8 standard and alignment of product brand identity.

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, storage, transportation, and disposal. ZHEJIANG FUNDER IMPORT AND EXPORT TRADE CO., LTD. makes no warranties, expressed or implied, and assumes no legal responsibility for use or reliance upon this data.

END OF SAFETY DATA SHEET