Safety Data Sheet

PINHONBIO® Oat Beta Glucan 80%

White Water Soluble Powder | SDS / MSDS | Version 1.1 | 20 Oct 2026

1 Identification

Product identifier	PINHONBIO® Oat Beta Glucan 80% | White Water Soluble Powder
Recommended use	Food ingredient and professional formulation raw material.
Supplier	Shaanxi Pinhon Biotechnology Co., Ltd.
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2 Hazard identification

GHS classification: Not classified as hazardous based on the available composition and oat β-glucan safety information. Product-specific dust explosibility has not been measured.

Label elements: No GHS hazard pictogram, signal word or hazard statement assigned under this classification.

Other hazards: Airborne powder can irritate eyes and the respiratory tract mechanically. Fine organic dust may form a combustible dust cloud when dispersed in air near an ignition source. Oat-derived protein may cause a reaction in susceptible individuals. Wet spills can be slippery.

3 Composition and information on ingredients

Product type: Oat-derived multicomponent powder. β-Glucan is the main constituent; the CAS number below identifies that component, not a chemically pure whole product.

Constituent	Content and basis
Oat β-glucan	≥80.0% of dry matter; CAS 9041-22-9 identifies the β-glucan component.
Other oat-derived constituents	Balance of dry matter, up to 20.0%; may include other carbohydrates, protein, lipids and mineral matter.
Moisture	≤8.0% as supplied, controlled by the moisture specification.

The dry-matter percentages total 100% of dry solids. They are not an 80:20 as-supplied blending formula; residual moisture is outside the dry-basis calculation.

4 First aid measures

Inhalation: Move to fresh air. Seek medical help if coughing, wheezing or breathing discomfort persists. Skin: Wash with water and soap; seek advice if irritation develops. Eyes: Rinse gently with clean water for several minutes; remove contact lenses if easy and continue rinsing. Obtain medical advice for persistent discomfort. Ingestion: Rinse the mouth; do not induce vomiting. Seek medical advice if unwell. Never give anything by mouth to an unconscious person.

Main symptoms: Mechanical irritation from dust; possible allergic symptoms in susceptible persons. Get urgent medical help for breathing difficulty or severe allergic symptoms. Treatment: Symptomatic care.

5 Firefighting measures

Extinguishing media: Use water spray, foam or dry chemical suitable for the surrounding fire. Avoid high-pressure jets that disperse accumulated powder. Cool exposed containers with water spray from a safe position.

Specific hazards: Organic material can burn and release carbon monoxide, carbon dioxide and irritating smoke. Avoid disturbing dust deposits during firefighting. Use self-contained breathing apparatus and appropriate protective clothing.

6 Accidental release measures

Restrict access to the spill area, ventilate and remove ignition sources. Avoid breathing dust and wear the protection in Section 8. Collect carefully using a vacuum suitable for combustible organic dust or another method that minimizes dust generation; do not use compressed air.

Place recovered powder in a closed, labelled container. Prevent large releases into drains or surface water. Clean remaining traces with a small amount of water after bulk recovery and control the resulting slippery surface. Do not return contaminated material to usable stock.

7 Handling and storage

Handling: Open bags and transfer powder carefully. Provide dust extraction at charging points. Prevent dust deposits, sparks, open flames and unnecessary static discharge. Use suitable grounded transfer and dust-collection equipment where a dust hazard exists. Wash hands after handling; keep work areas clean and dry.

Storage: Store in cool and dry places and keep away from strong light and heat. Keep in tightly closed original packaging in a clean, ventilated area. Protect from moisture, strong odours and contamination. Separate from strong oxidizing agents and toxic materials. Shelf life: 24 months under recommended storage conditions.

8 Exposure controls and personal protection

Control parameters: No product-specific occupational exposure limit is established in the supplied data. Apply local limits for inhalable and respirable dust and assess the actual task exposure.

Engineering controls	Use general ventilation and local dust extraction. Maintain effective housekeeping and provide access to an eye-rinse station.
Eye protection	Safety glasses with side shields; use dust goggles for dusty operations.
Hand and body protection	Suitable protective gloves and clean work clothing. Change contaminated clothing.
Respiratory protection	Where extraction is insufficient, use a certified particulate respirator selected for the task exposure and local requirements; ensure correct fit.
Environmental controls	Capture dust at source. Prevent uncontrolled discharge of powder or contaminated wash water.

9 Physical and chemical properties

Physical state and appearance	White powder
Odour	Characteristic
Odour threshold	Not determined
pH	Not specified for this grade; no test-solution conditions established.
Solubility and hydration	Water-soluble. Add gradually to water with mixing and allow sufficient hydration time. Verify clarity and viscosity at the intended concentration.
Melting or freezing point	Not determined
Boiling point or range	Not applicable to the supplied polymer powder
Flammability	Organic powder can burn; product-specific test data not available.
Explosion limits and dust parameters	Not determined; avoid dust cloud formation.
Flash point	Not applicable to the supplied solid
Autoignition and decomposition temperatures	Not determined
Kinematic viscosity	Not applicable to the dry powder; solution viscosity not specified.
Partition coefficient n-octanol/water	Not determined
Vapour pressure and vapour density	Not determined
Relative density and bulk density	Not determined
Particle characteristics	Passes an 80-mesh sieve; detailed distribution not determined.

10 Stability and reactivity

Reactivity and stability: Stable during recommended dry storage and handling. No hazardous polymerization is expected. Avoid moisture, excessive heat, dust accumulation and ignition sources. Strong oxidizing agents are incompatible. In fire or severe overheating, carbon oxides and irritating decomposition products may form.

11 Toxicological information

Likely exposure routes are inhalation of dust, eye or skin contact and accidental ingestion. Dust may cause physical irritation. Oat protein residues may provoke allergic symptoms in susceptible individuals.

Product-specific data for acute oral, dermal or inhalation toxicity, skin corrosion, eye damage, sensitization, mutagenicity, carcinogenicity, reproductive toxicity, single or repeated target-organ toxicity and aspiration hazard are not available. No numerical LD50 or LC50 is assigned. Food-grade designation does not remove occupational dust precautions.

12 Ecological information

Aquatic toxicity: No product-specific quantitative data available. Persistence, degradability, bioaccumulation and mobility in soil: Not determined for the supplied grade. PBT/vPvB and endocrine-disrupting properties: No product-specific assessment available. Avoid large releases into waterways and dispose of residues appropriately.

13 Disposal considerations

Collect unwanted powder and contaminated packaging in closed containers. Arrange disposal through an appropriate waste handler under local requirements. Avoid dust generation and discharge to drains. Empty packaging may retain powder; clean or dispose of it appropriately.

14 Transport information

Transport status	Non-dangerous goods.
UN number or ID number	Not assigned
UN proper shipping name	Not applicable
Transport hazard class and packing group	Not assigned
ADR / RID road and rail	Not regulated as dangerous goods
IMDG sea	Not regulated as dangerous goods
IATA / ICAO air	Not regulated as dangerous goods
Environmental transport hazard	Not classified as a marine pollutant
Special precautions	Keep packaging sealed and dry; protect from damage, strong heat and contamination. Do not transport together with toxic materials.
Maritime transport in bulk	Not intended for bulk liquid carriage.

15 Regulatory information

Prepared in the GHS 16-section format for safe handling of the identified grade. Apply workplace dust-control and waste requirements in the destination country. Food-use permissions, labelling, allergen declarations and permitted applications must be assessed for the intended market. This sheet does not certify a product registration or a gluten-free claim.

16 Other information

Issue date: 20 Oct 2026 | Version 1.1 | Prepared for Shaanxi Pinhon Biotechnology Co., Ltd. General product document; batch-specific results are supplied in the COA.

Basis: Grade-specific PINHONBIO COA; customer-supplied BTSG080 technical and safety reference; public oat β-glucan safety information. External references support general hazard evaluation and do not represent tests on PINHONBIO product.

Public references: Megazyme, β-Glucan (Oat; Medium Viscosity) SDS, revised 01 Mar 2022; OSHA, Combustible Dust guidance. Reviewed 20 Oct 2026.

https://prod-docs.megazyme.com/documents/Safety_Data_Sheet/Reach/SDS-EN/P-BGOM_SDS-EN.pdf

https://www.osha.gov/combustible-dust

GHS: Globally Harmonized System; SDS/MSDS: Safety Data Sheet; PBT/vPvB: persistent, bioaccumulative and toxic / very persistent and very bioaccumulative. Information supports safe handling and does not guarantee finished-product performance.