Fava bean protein

Grades: 85%

01 Identification

Product identifier: Fava bean protein

Grades / scope: 85%. Dry supplied material only; does not cover flavored blends, preserved liquids or other formulations.

Recommended use: Professional food-ingredient formulation and handling. Confirm intended use and destination requirements for the ordered grade.

Supplier: Shanghai Protide Biotech Co., Ltd.

Address: Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China.

Contact: sales@protidebio.com | www.protidebio.com | +86-21-54265599

Emergency contact: Contact local emergency medical services or a poison center for urgent assistance. Supplier number is for business inquiries; no 24-hour emergency service is represented.

02 Hazards Identification

Classification: Available product information does not establish a specific GHS hazard classification for this supplied preparation. No product-specific classification test report has been provided.

Label elements: No hazard pictogram or signal word is assigned on the available information. This does not remove the need for workplace dust and allergen controls.

Other hazards: Organic fines may form combustible dust concentrations in air. Dust may mechanically irritate eyes and the respiratory tract. Dust explosibility parameters have not been determined.

Allergen considerations: Plant-derived material may cause allergic reactions in susceptible individuals. Assess the selected material and workplace exposure. Fava-bean constituents can cause favism in individuals with G6PD deficiency. Vicine and convicine levels for this grade are not supplied; obtain product-specific safety confirmation.

03 Composition / Information on Ingredients

Description: Fava bean protein; Fava beans. Naturally derived ingredient with a variable composition; protein grade is not chemical purity.

Formulation: The supplied technical information does not identify added hazardous ingredients. No unreported concentration or preservative system is inferred.

Identifiers: A single CAS/EC number is not assigned to this naturally derived preparation. Confirm identifiers for the ordered material when required.

04 First-Aid Measures

Inhalation: Move to fresh air and stop exposure. Seek medical assistance if breathing difficulty or persistent symptoms occur. Rescue personnel should avoid exposure.

Eye contact: Rinse cautiously with clean water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing; obtain medical advice if irritation persists.

Skin contact: Wash with soap and water. Remove contaminated clothing. Obtain medical advice if irritation or an allergic reaction develops.

Ingestion: Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical advice if unwell or if an allergic reaction is suspected.

Symptoms / treatment: Dust may cause coughing, discomfort or eye irritation. Treat symptomatically. Urgent care is required for breathing difficulty or a severe allergic reaction.

05 Fire-Fighting Measures

Suitable media: Water spray, foam, dry chemical or carbon dioxide, selected for the surrounding fire. Avoid a high-pressure jet that could disperse dust.

Specific hazards: Burning organic material may generate carbon monoxide, carbon dioxide and irritating smoke. Airborne fines can present a dust-explosion hazard; do not assume a nonflammable solid has no dust risk.

Protection: Firefighters should wear appropriate protective clothing and self-contained breathing apparatus. Cool exposed containers where safe and contain contaminated runoff.

06 Accidental Release Measures

Personal precautions: Restrict access, ventilate the area and control ignition sources. Avoid raising dust. Use the protective measures in Section 8.

Cleanup: Collect gently into suitable closed containers. Use a vacuum suitable for combustible dust where needed; do not use compressed air or uncontrolled dry sweeping.

Environmental measures: Prevent bulk material entering drains or waterways. Keep recovered material intended for disposal separate from food-grade product; follow local waste requirements.

07 Handling and Storage

Handling: Minimize dust generation during transfer, blending and cleaning. Control ignition and static sources where dust can accumulate. Maintain good food hygiene and allergen segregation.

Storage: Keep sealed in a cool, dry place away from direct sunlight, moisture and heat.

Packaging: Net content ≥20 kg; confirm packaging type. Keep containers closed, clean and protected against contamination.

Use limitations: Use only the approved grade for the intended application. Food-use suitability does not establish safety for inhalation or unrestricted workplace exposure.

08 Exposure Controls / Personal Protection

Exposure limits: No product-specific occupational exposure limit is provided. Apply the relevant local limits for inhalable and respirable particulate matter and conduct a workplace assessment.

Engineering controls: Provide ventilation or local extraction at dust-generating operations. Prevent deposits on high surfaces and use suitable dust collection and housekeeping controls.

Eye / skin protection: Use safety glasses or goggles where dust exposure is possible, appropriate work clothing and gloves for hygiene or prolonged contact.

Respiratory protection: Where engineering controls do not adequately control airborne dust, select an approved particulate respirator under the applicable workplace respiratory-protection program.

Hygiene: Wash after handling. Avoid eating or drinking in ingredient-handling areas. Control cross-contact with allergens.

09 Physical and Chemical Properties

Physical state / color: Light yellow

Odor: Characteristic of the supplied plant-derived ingredient. Odor threshold not available.

pH: pH: 6.0-8.0

Density: Not available for this supplied preparation.

Water solubility: Not quantified for this grade. Dispersibility or hydration behavior is not a solubility assay.

Melting / boiling / freezing: Not established for this complex dry ingredient; decomposition may occur before a defined boiling point.

Flash point / vapor pressure: Not applicable to the supplied nonvolatile dry solid. No quantitative vapor-pressure test is provided.

Flammability / explosive limits: Organic fines may burn or form combustible dust clouds. Kst, Pmax, minimum ignition energy and dust explosive limits are not available.

Autoignition / decomposition: Not determined for this preparation.

Other properties: Particle-size information, if supplied, appears in the matching TDS. Partition coefficient, evaporation rate and kinematic viscosity are not established for this solid preparation.

10 Stability and Reactivity

Stability: Expected to remain stable under the stated dry storage and normal handling conditions. Moisture and contamination may impair quality.

Conditions to avoid: Excessive heat, ignition sources, dust clouds, static discharge, moisture and microbial contamination.

Incompatible materials: Avoid strong oxidizing agents. Do not mix with incompatible cleaning chemicals.

Reactions / decomposition: Hazardous polymerization is not expected in normal handling. Fire or thermal decomposition can generate carbon oxides and irritating smoke; product-specific decomposition testing is unavailable.

11 Toxicological Information

Exposure routes: Inhalation of dust, eye or skin contact, and accidental ingestion.

Likely effects: Airborne dust may cause mechanical irritation. Plant-derived material may cause allergic reactions in susceptible individuals. Assess the selected material and workplace exposure. Fava-bean constituents can cause favism in individuals with G6PD deficiency. Vicine and convicine levels for this grade are not supplied; obtain product-specific safety confirmation.

Acute / repeated-dose toxicity: No product-specific LD50, LC50 or repeated-dose test dataset is available for the supplied preparation. Values for unrelated pure substances are not transferred.

CMR / sensitization: No product-specific test data establish carcinogenicity, mutagenicity, reproductive toxicity or a quantified sensitization threshold. Lack of data is not proof of absence.

Aspiration: The material is supplied as a dry solid. No aspiration-hazard test is supplied.

12 Ecological Information

Ecotoxicity: No product-specific aquatic toxicity data are available.

Persistence / bioaccumulation: No preparation-specific biodegradation, bioaccumulation or mobility study is supplied. Do not infer a regulatory conclusion from natural origin.

Environmental control: Avoid bulk release. Organic material entering water may increase oxygen demand and contribute to local contamination.

Other endpoints: PBT, vPvB and endocrine-disruption properties have not been assessed for the supplied preparation.

13 Disposal Considerations

Product residues: Recover or dispose of through an authorized route in accordance with applicable local requirements. Do not return contaminated recovered material to food supply.

Packaging: Empty and clean packaging where appropriate before authorized recycling. Handle packaging containing residues according to the residue hazard and local rules.

Waste code: Determine the applicable waste code from actual use and contamination; no universal hazardous/nonhazardous waste classification is assigned here.

14 Transport Information

UN number / shipping name: No dangerous-goods UN entry is identified on the available information for the unadulterated dry ingredient.

ADR/RID, IMDG, IATA: No dangerous-goods class or packing group is assigned on the available information. Verify the final consignment and any additives, contamination or destination-specific requirements with the carrier.

Environmental hazards: No marine-pollutant designation is established for this preparation.

Precautions: Keep dry and securely packaged. Prevent bag damage, dust release and contamination. Follow applicable food-transport hygiene controls.

Bulk carriage: Not assessed for maritime bulk transport; arrange requirements separately if applicable.

15 Regulatory Information

Scope: This safety information does not authorize the ingredient for any food, feed, cosmetic or pharmaceutical use. Confirm the selected grade and intended use under destination rules.

Inventories / certifications: No blanket REACH registration, chemical-inventory listing, organic, religious or quality-system certification is asserted by this SDS.

Specific considerations: Assess allergen labeling and cross-contact requirements for the declared botanical source. A safety document does not replace the product TDS, COA or market authorization.

Assessment: A preparation-specific chemical safety assessment has not been supplied.

16 Other Information

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Prepared by: Shanghai Protide Biotech Co., Ltd.

Abbreviations: GHS: Globally Harmonized System; COA: certificate of analysis; TDS: technical data sheet; PBT/vPvB: persistent/bioaccumulative/toxic or very persistent/very bioaccumulative.

Scope and limitations: Describes available safety and handling information for the named dry material. It is not a quality guarantee, test certificate or confirmation that every toxicological endpoint has been measured. Users must assess actual work conditions, final mixtures and applicable requirements.