Safety Data Sheet: Isolated Soy Protein

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1. Identification

Product identifier	Isolated Soy Protein
CAS / EC No.	9010-10-0 / 232-720-8
Product type	Soy-derived protein preparation; powder
Recommended use	Functional protein ingredient for industrial food formulation.
Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China.
Telephone	+86-21-54265599 (office hours, China time, UTC+8)
Email / Website	sales@zxchem.com.cn / www.zxchem.com

This sheet covers soy protein isolate powder. It does not cover hydrolyzed soy protein liquids or preparations containing added solvents or other active ingredients.

2. Hazards Identification

GHS classification	
Pictograms / Signal word	
Hazard statements	

Soy protein can cause allergic reactions in susceptible individuals. Avoid inhalation of dust and prevent contact with eyes. Fine airborne organic dust can create a fire or explosion hazard when dispersed at sufficient concentration near an ignition source. Keep dust deposits under control.

3. Composition / Information on Ingredients

Soy protein	CAS 9010-10-0; protein specification ≥90.0%.
Moisture	≤7.0% (product specification).
Other constituents	Not individually quantified.

This is a protein preparation of biological origin, not a single-molecular-formula substance. Protein and moisture figures are specification limits rather than a complete analytical composition or batch result.

4. First-Aid Measures

Inhalation	Move to fresh air. Seek medical attention for persistent irritation, wheezing or breathing difficulty. Urgent medical care is required for a severe allergic reaction.
Eye contact	Rinse gently with clean water for at least 15 minutes. Remove contact lenses if easy to do. Obtain medical advice if discomfort continues.
Skin contact	Wash affected skin with soap and water. Remove contaminated clothing. Seek medical advice for rash or persistent irritation.
Ingestion	Rinse the mouth. Obtain medical help if symptoms or an allergic reaction occur. Do not induce vomiting or give anything by mouth to an unconscious person.
Advice to medical personnel	Treat symptoms. Consider soy allergy and the route and extent of exposure.

5. Fire-Fighting Measures

Suitable media	Water spray, dry chemical, carbon dioxide or foam, selected for the surrounding fire.
Special hazards	Airborne dust and accumulated powder may contribute to a fire or dust explosion. Avoid dispersing powder with strong jets.
Firefighter protection	Use self-contained breathing apparatus and protective clothing. Keep unprotected personnel away from smoke and combustion products.

Remove ignition sources if this can be done safely. Cool exposed containers with water spray and prevent contaminated firefighting water from entering drains.

6. Accidental Release Measures

Personal precautions	Restrict access, provide ventilation, avoid dust inhalation and use the protective equipment described in Section 8.
Containment / cleanup	Collect carefully into suitable closed containers using a method that minimizes dust. Avoid dry brushing and compressed air. Use collection equipment appropriate to the assessed dust hazard.
Environmental precautions	Prevent large quantities entering drains, surface water or soil. Dispose of collected material in accordance with local requirements.

7. Handling and Storage

Safe handling	Reduce dust at transfer points; avoid unnecessary powder drop height. Keep equipment clean and control static and ignition sources where a dust hazard may develop. Wash hands after handling.
Storage conditions	Keep closed in cool, dry conditions at ≤25°C (77°F) and relative humidity ≤65%. Protect against moisture and contamination.
Separation	Keep away from incompatible substances and materials that can contaminate the food ingredient. Do not store or transport with toxic, volatile or radioactive materials.
Packaging	Food-grade PE inner bag with paper-plastic composite outer bag; 20 kg net.

8. Exposure Controls / Personal Protection

Product-specific occupational limit	
Engineering controls	Use local exhaust or enclosed powder transfer where dust may be generated. Apply the relevant workplace particulate limits and site-specific exposure assessment.
Eye protection	Use protective eyewear where dust exposure or splashing during cleaning is possible.
Skin protection	Wear clean protective clothing and suitable gloves for the operation.
Respiratory protection	Where ventilation does not adequately control dust, use a properly selected and fitted particulate respirator under a respiratory-protection program.
Hygiene	Avoid contact of contaminated hands with eyes. Maintain allergen controls and do not eat or drink in material-handling areas.

9. Physical and Chemical Properties

Physical state / Appearance	Powder; light yellow or off-white.
Odor	Neutral.
pH	6.5–8.5; test concentration not specified.
Melting / Freezing point	No product-specific data available.
Boiling point	No product-specific data available.
Flash point	No product-specific data available.
Flammability / Dust explosibility	Dispersed organic dust may present a combustible-dust hazard; no product-specific test values supplied.
Vapor pressure / Density	No product-specific data available.
Solubility / Decomposition temperature	No product-specific data available.

10. Stability and Reactivity

Stability	Keep in the storage conditions described in Section 7.
Conditions to avoid	Dust generation, ignition sources, moisture ingress and contamination.
Incompatible materials	Keep away from strong oxidizing agents.
Hazardous reactions	No product-specific test data available.
Decomposition products	Fire may generate irritating smoke and carbon oxides. Avoid breathing combustion products.

11. Toxicological Information

Likely routes of exposure	Dust inhalation; eye and skin contact; ingestion.
Irritation / Other effects	Dust may cause mechanical eye or airway irritation. Soy-related allergic reactions can occur in susceptible persons.
Acute toxicity	No product-specific quantitative test data available.
Sensitization classification	
Carcinogenicity / Mutagenicity / Reproductive toxicity	No product-specific test data supplied.

The fact that a material is used as a food ingredient does not replace workplace exposure controls or allergen precautions.

12. Ecological Information

Ecotoxicity	No product-specific quantitative test data available.
Persistence / Degradability	No product-specific test data available.
Bioaccumulation / Mobility	No product-specific test data available.
PBT / vPvB assessment	

Avoid uncontrolled discharge of material or cleanup water to drains and waterways.

13. Disposal Considerations

Material disposal	Collect and dispose of unused or contaminated material through an appropriate waste route in accordance with local requirements.
Packaging disposal	Empty bags carefully to minimize dust. Contaminated packaging should be handled according to the nature of the contamination and local waste rules.

Do not reuse contaminated food-contact packaging. Do not wash bulk powder into drains.

14. Transport Information

UN number	
UN proper shipping name	
DOT / IMDG / ICAO-IATA classification	
Transport hazard class / Packing group	
Marine pollutant / Environmental transport status	
Handling during transport	Use a clean, dry vehicle or container. Protect bags from damage and moisture; transport at ≤25°C and segregate from toxic, volatile or radioactive substances.

15. Regulatory Information

Applicable chemical inventory status	
Product-specific safety / Regulatory conformity	

Food-use, allergen-labeling and occupational-safety requirements depend on the intended application and destination. Certificate badges on commercial documents do not substitute for a product-specific regulatory assessment.

16. Other Information

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Prepared by	ZXCHEM

This sheet provides reference safety information for the material identified in Sections 1 and 3. Different formulations require separate assessment. It is not a batch analytical certificate or transport-classification report. Blank classification, transport or compliance entries do not establish an exemption or a safety conclusion. The user must assess the actual process, exposure conditions and applicable requirements.