Edible Gelatin

1. Identification

Product identifier	Edible Gelatin
Chemical identity	Gelatin
CAS No.	9000-70-8
Identified use	Food-grade bovine gelatin granules with different gel strength and viscosity grades for confectionery, dairy and meat formulations.
Supplier	ZXCHEM
Technical contact	sales@zxchem.com.cn; +86-21-54265599
Emergency assistance	Contact the local emergency service or poison center for immediate medical assistance.

2. Hazards identification

Classification	Not classified as hazardous under the US OSHA Hazard Communication Standard, based on available information.
Label elements	No hazard pictogram or signal word required under the stated classification.
Other hazards	Airborne protein dust may irritate eyes and the respiratory tract. Avoid dust formation and inhalation. Sensitive individuals may react to animal protein.
Precautions	Keep containers closed. Use ventilation and suitable personal protection during transfer.

3. Composition/information on ingredients

Material	Edible Gelatin
Source	Bovine collagen
CAS No.	9000-70-8
Composition	Animal-derived protein material; refer to the technical specification for quality parameters.

4. First-aid measures

Inhalation	Move to fresh air. Seek medical attention if breathing difficulty or persistent symptoms occur.
Skin contact	Wash with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.
Eye contact	Rinse gently with clean water for at least 15 minutes. Remove contact lenses if easy to do. Obtain medical attention if irritation persists.
Ingestion	Rinse the mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical advice if symptoms occur.
Advice to physician	Treat symptomatically.

5. Firefighting measures

Suitable extinguishing media	Water spray, foam, dry chemical powder or carbon dioxide, appropriate to the surrounding fire.
Fire hazards	Heating or combustion can produce irritating fumes and carbon and nitrogen oxides. Minimize airborne organic dust near ignition sources.
Protective equipment	Wear self-contained breathing apparatus and protective clothing when fighting a fire.

6. Accidental release measures

Personal precautions	Provide ventilation. Avoid raising dust. Use eye protection and gloves; restrict access during cleanup.
Environmental precautions	Prevent bulk material from entering drains and waterways.
Cleanup methods	Collect carefully by sweeping or suitable vacuum into a closed, labeled container. Clean remaining residues without dispersing dust.

7. Handling and storage

Safe handling	Avoid dust generation and prolonged inhalation. Use good industrial hygiene. Wash hands after handling. Keep food and drink away from bulk transfer operations.
Storage	Store sealed in a cool, dry place, away from direct sunlight and moisture.
Incompatible storage	Keep away from strong oxidizing agents and protect the package from moisture.

8. Exposure controls/personal protection

Engineering controls	Provide general ventilation; use local extraction where dust is generated.
Eye protection	Safety glasses or goggles during powder transfer.
Hand and body protection	Suitable protective gloves and work clothing.
Respiratory protection	Use an appropriate particulate respirator when ventilation cannot control airborne dust.
Hygiene	Wash hands and exposed skin after handling. Keep work areas free of accumulated dust.

9. Physical and chemical properties

Physical state	Solid
Appearance	Light yellow granules
Odor	Characteristic
pH	4–7
Melting/freezing point	No data available
Boiling point	Not applicable to the supplied solid
Flash point	Not applicable to the supplied solid
Vapor pressure	No data available
Relative density	No data available
Water solubility	No data available
Particle characteristics	Powder or granules as supplied

10. Stability and reactivity

Chemical stability	Stable under normal storage and handling conditions.
Conditions to avoid	Excess heat, moisture and uncontrolled dust accumulation.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition	Combustion may generate carbon oxides, nitrogen oxides and irritating fumes.

11. Toxicological information

Likely exposure routes	Inhalation of dust; eye and skin contact.
Acute toxicity	No product-specific quantitative data available.
Irritation	Dust may cause mechanical eye or respiratory irritation.
Sensitization	Animal protein may cause a reaction in sensitive individuals.
Chronic toxicological endpoints	No product-specific data available for mutagenicity, reproductive toxicity or target-organ effects.

12. Ecological information

Ecotoxicity	No product-specific quantitative data available.
Persistence and degradability	No product-specific test data available.
Bioaccumulation and mobility	No product-specific data available.
Environmental handling	Avoid uncontrolled discharge of bulk protein material to drains, surface water or soil.

13. Disposal considerations

Product waste	Dispose of collected waste in accordance with applicable local requirements.
Packaging	Empty containers thoroughly. Recycle or dispose of the packaging through an appropriate local waste route.

14. Transport information

Transport classification	Not regulated as dangerous goods for DOT, TDG, IMDG and IATA transport.
UN number	Not assigned for the non-dangerous goods classification.
UN proper shipping name	Not applicable
Transport hazard class	Not applicable
Packing group	Not applicable
Transport precautions	Keep packaging dry, closed and protected from physical damage.

15. Regulatory information

Chemical identity	Gelatin
CAS No.	9000-70-8
Inventory identity	Gelatin is listed under EC 232-554-6 and in the U.S. TSCA inventory.

16. Other information

Revision	Initial ZXCHEM product-specific issue; revision 1.0.
Document scope	Edible Gelatin in the physical form described above.
Abbreviations	GHS: Globally Harmonized System; CLP: Classification, Labelling and Packaging; ADR/RID: road/rail; IMDG: maritime; IATA: air transport; COA: Certificate of Analysis.
Handling information	Use the stated handling, storage and personal protection measures when transferring the supplied material.

Supplier Contact

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