

Food-Grade Bovine Skin Gelatin

Edible / pharmaceutical-grade gelatin · all Bloom grades & mesh sizes

◆ NOT CLASSIFIED AS HAZARDOUS under UN GHS as adopted in India

1 IDENTIFICATION

Product name	Food-Grade Bovine Skin Gelatin (edible gelatin)
Synonyms	Gelatin; edible gelatine; Type B (alkaline) gelatin; collagen hydrolysate (partial)
CAS No.	9000-70-8
EINECS No.	232-554-6
Product type	Bovine hide-derived gelatin, granule / powder
Recommended use	Gelling, thickening, stabilising & film-forming agent in food, confectionery, dairy, nutraceutical & pharmaceutical (capsule) applications
Uses advised against	None known for the intended food/pharma use
Manufacturer	Tianran Biotech (U) Ltd, Plot 5-7 Nyanza Close, Jinja, Uganda
Supplier / distributor	Magnus InterGlobe — contact@magnusinterglobe.com
Indian importer	Magnus InterGlobe · +1-848-213-3908
Emergency telephone	+1-848-213-3908 (24-hour)

2 HAZARD IDENTIFICATION

GHS classification	Not a hazardous substance or mixture under UN GHS (as adopted in India). No physical, health or environmental hazard class applies.
Signal word	None
Hazard statements	None
Precautionary statements	None required
Pictograms	None

Other hazards not resulting in classification: As an organic powder, accumulated dust may form an explosible dust–air mixture in the presence of an ignition source; avoid dust generation. Wetted product / spilled solution is slippery. Product is a foodstuff and presents no health hazard in normal handling.

3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	CONC.	CLASSIFICATION
Gelatin (from bovine hide, Type B)	9000-70-8	> 99% (as-is)	Not classified
Moisture (water)	7732-18-5	≤ 12%	Not classified

Single-substance product. Contains no hazardous ingredients requiring disclosure. Single species (bovine only); no added preservatives.

4 FIRST-AID MEASURES

Eye contact	Rinse with clean water for a few minutes to remove particulate. Seek advice if irritation persists.
Skin contact	No hazard expected. Wash with water if desired.
Inhalation	Move to fresh air if dust causes discomfort. No specific treatment required.
Ingestion	Product is a foodstuff; no hazard. Rinse mouth with water.
Delayed effects	None known.

5 FIRE-FIGHTING MEASURES

Suitable media	Water spray, foam, dry chemical powder, carbon dioxide (CO ₂).
Unsuitable media	High-pressure water jet (may disperse dust and create explosible cloud).
Special hazards	Combustible organic solid. Hazardous combustion products may include carbon monoxide, carbon dioxide and oxides of nitrogen. Airborne dust may be explosible.
Protection for firefighters	Self-contained breathing apparatus (SCBA) and full protective clothing.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid dust formation and inhalation. Take care — wetted spillage is slippery.
Environmental precautions	Prevent large quantities from entering drains or watercourses. No significant environmental hazard.
Clean-up	Sweep or vacuum up (avoid dust clouds); collect into containers for reuse or disposal. Wash residues with water.

7 HANDLING AND STORAGE

Handling	Handle in accordance with good food-hygiene and industrial-hygiene practice. Minimise dust generation and accumulation; keep away from ignition sources.
Storage	Store in original sealed packaging in a cool, dry, well-ventilated area, < 25 °C and ≤ 60% relative humidity. Keep away from moisture, strong odours and direct sunlight.
Incompatibilities	Strong oxidising agents; strong acids/alkalis; moisture (promotes microbial growth / caking).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limit	No specific OEL established for gelatin. Manage as nuisance / particulates-not-otherwise-classified (inhalable dust). Observe workplace limits under the Factories Act, 1948 and relevant State Factory Rules.
Engineering controls	Adequate general / local exhaust ventilation where dust is generated.
Respiratory protection	Dust mask (e.g. FFP1/FFP2) if dusty conditions.
Hand / eye protection	Gloves and safety glasses as good-practice; not otherwise required.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light-yellow granules / powder
Odour	Faint, characteristic; essentially odourless
pH (6.67% aqueous solution)	4.5 – 7.0
Melting / softening point	Not applicable — chars / decomposes on strong heating
Flash point	Not applicable (solid, non-volatile)
Solubility	Swells in cold water; soluble in warm water (> 40 °C) and glycerol; insoluble in most organic solvents
Moisture content	≤ 12%
Ash content	≤ 2%
Bulk density / particle size	Per grade (6 / 20 / 40 mesh); bulk density <i>no data</i>
Gel behaviour	Forms a thermoreversible gel on cooling of aqueous solution

10 STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions.
Reactivity / hazardous reactions	None under normal conditions. No hazardous polymerisation.
Conditions to avoid	Moisture, high humidity and heat (promote caking / microbial growth / degradation).
Incompatible materials	Strong oxidisers, strong acids and alkalis.
Hazardous decomposition	On combustion: CO, CO ₂ , oxides of nitrogen.

11 TOXICOLOGICAL INFORMATION

Gelatin is an edible protein with a long history of safe human consumption; it is non-toxic and non-irritant in normal use. No adverse effects are expected via ingestion (foodstuff), skin or eye contact (mechanical only), or inhalation (nuisance dust). Acute toxicity: not classified (LD₅₀ not relevant — food substance). Not a known carcinogen, mutagen or reproductive toxicant. Sensitisation: gelatin allergy is rare but has been reported in sensitive individuals.

12 ECOLOGICAL INFORMATION

Gelatin is a natural protein, readily biodegradable and not expected to be ecotoxic or bioaccumulative. No known adverse environmental effects. Avoid discharge of large quantities into watercourses (oxygen demand).

13 DISPOSAL CONSIDERATIONS

Dispose of product and packaging in accordance with local, State and national regulations. Small quantities are biodegradable and may be treated as non-hazardous food/organic waste. Manage waste in line with the Solid Waste Management Rules, 2016 and applicable local authority requirements.

14 TRANSPORT INFORMATION

Classification	Not a dangerous good. Not regulated for transport under IMDG (sea), IATA/ICAO (air), ADR (road) or the Indian transport of dangerous-goods provisions of the Central Motor Vehicles Rules, 1989.
UN number	None
Proper shipping name	Not applicable
Hazard class / packing group	None
Marine pollutant	No

- Regulated as a **food article** under the **Food Safety and Standards Act, 2006** and FSSAI regulations; gelatin for food use must meet the applicable FSSAI standard. Pharmaceutical-grade material is subject to the Drugs and Cosmetics Act, 1940 / relevant pharmacopoeial monograph (IP/USP/EP).
- Not** a "hazardous chemical" listed under the Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989; no scheduled threshold applies.
- Workplace handling under the Factories Act, 1948 and relevant State Factory Rules.
- Product manufacturer holds FSSC 22000 v6, ISO 9001:2015 and ISO 22716:2007 (GMP) certification; US FDA food-facility registered (Reg. 10061730108).

India's GHS/BIS hazard-communication framework continues to evolve. The importer should confirm the current applicable BIS standard and any labelling requirements at the time of import; this SDS is provided in the internationally recognised UN GHS 16-section format.

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OTHER INFORMATION

Document no.	MIG-SDS-BSG-IN-01
Revision	01 (first issue)
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Format	UN GHS, 16 sections
Abbreviations	GHS = Globally Harmonised System; OEL = Occupational Exposure Limit; SCBA = Self-Contained Breathing Apparatus; FSSAI = Food Safety and Standards Authority of India.

Disclaimer. This Safety Data Sheet is prepared in the UN GHS 16-section format for a product that is not classified as hazardous. The information relates only to the specified material and is based on data available at the date of issue; it does not constitute a guarantee of any property or a warranty of fitness for a particular purpose. It is the user's / importer's responsibility to determine suitability and to ensure compliance with all applicable Indian central, State and local regulations. Should be reviewed and approved by a competent person before issue.