Product Specification Sheet

1. Product Description

Product Name:	Magnesium Bisglycinate Chelate (Magnesium Glycinate) — Bulk Food Grade
Chemical / Common Name:	Magnesium bisglycinate dihydrate chelate, fully reacted (~11 % Mg)
Synonyms:	Magnesium glycinate, magnesium diglycinate
Ingredient Statement:	Magnesium bisglycinate
Molecular Formula / Weight:	C4H8MgN2O4 / 172.42 g/mol (anhydrous basis)
CAS No. / HS Code:	14783-68-7 / —
Grade:	☐ Conventional ☐ Organic ☒ Food Grade ☐ USP / FCC
Country of Origin:	India
Description:	White to off-white powder obtained by synthesis from magnesium oxide (23.38 %) and glycine (71.62 %); water max. 5.0 %.

2. Physical & Chemical Characteristics

Parameter	Specification	Method
Appearance & Colour	White to off-white powder	Visual
Identification	Magnesium and glycinate — positive	In-house
pH	8 – 10	In-house
Moisture / Loss on Drying (%)	≤ 5.0	In-house
Particle Size / Mesh	30 mesh	Sieve
Solubility	Practically insoluble in water	In-house
Assay — Magnesium (%)	11.0 – 13.8	In-house

3. Contaminants

Parameter	Specification	Method
Total Heavy Metals (ppm)	≤ 10.0	In-house
Lead (Pb) (ppm)	≤ 3.0	In-house
Arsenic (As) (ppm)	≤ 1.0	In-house
Cadmium (Cd) (ppm)	≤ 1.0	In-house
Mercury (Hg) (ppm)	≤ 0.1	In-house

4. Microbiological Characteristics

Parameter	Specification	Method
Total Plate Count (CFU/g)	< 1000	In-house
Yeast & Mould (CFU/g)	< 100	In-house
E. coli	Negative	In-house
Salmonella (/25 g)	Negative	In-house

5. Allergen Declaration

Priority Allergen (Health Canada)	Present in Product	Same Line / Facility
Peanuts	☐ Yes ☒ No	☐ Yes ☐ No
Tree nuts	☐ Yes ☒ No	☐ Yes ☐ No

Priority Allergen (Health Canada)	Present in Product	Same Line / Facility
Sesame seeds	☐ Yes ☒ No	☐ Yes ☐ No
Milk	☐ Yes ☒ No	☐ Yes ☐ No
Eggs	☐ Yes ☒ No	☐ Yes ☐ No
Fish	☐ Yes ☒ No	☐ Yes ☐ No
Crustaceans & molluscs	☐ Yes ☒ No	☐ Yes ☐ No
Soy	☐ Yes ☒ No	☐ Yes ☐ No
Wheat & triticale	☐ Yes ☒ No	☐ Yes ☐ No
Gluten (barley, oats, rye)	☐ Yes ☒ No	☐ Yes ☐ No
Mustard	☐ Yes ☒ No	☐ Yes ☐ No
Sulphites (≥ 10 ppm)	☐ Yes ☒ No	☐ Yes ☐ No

6. Regulatory Status

GMO Status:	☒ Non-GMO ☐ Contains GMO ☐ Not applicable
Irradiation:	☒ Not irradiated ☐ Irradiated
Certifications:	☐ Kosher ☐ Halal ☐ Organic ☐ Vegan ☐ Other: _____
BSE / TSE Statement:	Free from TSE/BSE. No animal-derived materials (synthesis product).
Standard of Quality:	Manufacturer specification; meets EU/UK food contaminant limits. GRAS under intended conditions of use.

7. Packaging, Storage & Shelf Life

Uses:	Magnesium source for supplements (capsules, tablets, powders), functional beverages and fortified foods.
Packaging:	Food-grade sealed pouches, repacked from the manufacturer's original packaging.
Storage Conditions:	Store in sealed packaging in a clean, cool, dry place at 5–25 °C. Protect from humidity (RH < 60 %) and sunlight.
Shelf Life:	3 years from date of manufacture in original packaging.
Lot Code Format:	YYYYMMDDNN (repack date + sequence), traceable to the manufacturer lot.

8. Quality Assurance Review

Reviewed By (QA): LiquidShop Quality Assurance **Review Date:** 2026-10-08

This document was prepared electronically and reviewed by LiquidShop Quality Assurance. It is valid without a signature.

The information contained in this document is accurate to the best of our knowledge. It is the responsibility of the user to ensure the product is suitable for its intended application and complies with applicable regulations.