Bisglycinate

(Mg, Fe, Mn, Zn, Cu, Se, Cr)

SALVI CHEMICAL
INDUSTRIES LTD.

solid foundations, fresh innovations

Bisglycinate

ORGANIC CHELATED MINERALS

(Mg, Fe, Mn, Zn, Cu, Se, Cr)

WHAT ARE CHELATED MINERALS

- Chelated minerals are often used in food and dietary supplements to enhance the bioavailability of essential minerals, such as iron, zinc, copper, magnesium, and calcium.
- Chelation is a chemical process that involves binding a mineral to an organic molecule, typically an amino acid or peptide, to form a stable complex.
- This process can improve the absorption and utilization of minerals by the body.
- These chelated forms are commonly used in multivitamins, mineral supplements, and fortified foods to ensure that people get an adequate intake of essential minerals, especially when dietary intake is insufficient

ADVANTAGES OF CHELATED MINERALS

ENHANCED ABSORPTION

Chelated minerals are easily absorbed by the body, ensuring maximum nutrient utilization.

GENTLE ON YOUR STOMACH

Reduced risk of gastrointestinal side effects.

OPTIMAL NUTRIENT UTILIZATION

Boosts the body's efficiency in using essential minerals.

IMPROVED TASTE AND TEXTURE

Tasteless and odorless, preserving the delicious flavors of your favorite dishes.

TAILORED NUTRITION

Easily incorporated into various foods for specific dietary needs.

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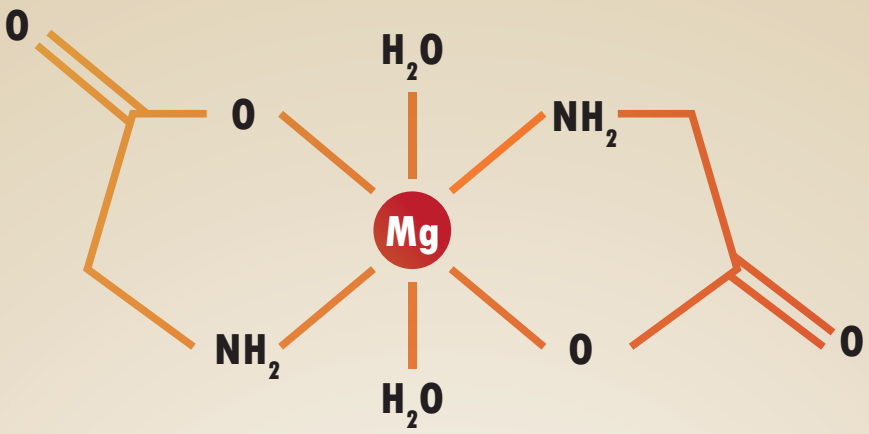

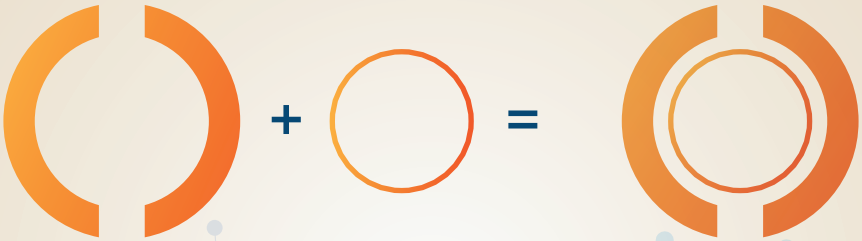

Ligand + Mineral Salt = Mineral Chelate with a "Protective Shell"

THREE STEP
VERIFICATION PROCESS

STEP 1 X-RAY DIFFRACTION (XRD)

X-Ray diffraction (XRD) confirms actual structure-It provides detailed information about the crystallographic structure, Chemical composition and physical properties of material

STEP 2 THERMOGRAVIMETRIC ANALYSIS (TGA)

Analytical technique used to study the thermal decomposition or stability of materials as a function of temperature and to understand the thermal behavior of chelates or ligands.

STEP 3 FOURIER TRANSFORM INFRARED SPECTROSCOPY (FT-IR)

Technique for investigating chelation processes, used to identify, characterize, and monitor the formation of chelate complexes, as well as study their stability and coordination modes. it provides information about the chemical bonds and functional groups involved in chelation processes.

SPECIFICATION

PRODUCT NAME	MAGNESIUM (Mg)	ZINC (Zn)	FERROUS (Fe)	COPPER (Cu)	MANGANESE (Mn)
CONTENT	8% 10% 12%	10% 20%	10% 15% 20% 23%-26%	10% 20%	16%
RESIDUAL MOISTURE	LESS THAN 5%	LESS THAN 5%	LESS THAN 5%	LESS THAN 5%	LESS THAN 5%
WATER SOLUBILITY	HIGHLY SOLUBLE	HIGHLY SOLUBLE	HIGHLY SOLUBLE	HIGHLY SOLUBLE	HIGHLY SOLUBLE
COLOUR	WHITE OR OFF-WHITE POWDER	WHITE TO OFF-WHITE POWDER	LIGHT TO DARK BROWN POWDER OR GRANULES	PALE BLUE TO BLUE-GREEN POWDER OR GRANULES	WHITE OR OFF-WHITE POWDER
PHYSICAL PROPERTIES	ODORLESS WHITE POWDER	ODORLESS WHITE FINE POWDER	FREE FLOWING POWDER	ODORLESS POWDER OR GRANULES	ODORLESS POWDER OR GRANULES
LEAD	NMT 1 PPM	NMT 4 PPM	NMT 2 PPM	NMT 5 PPM	NMT 5 PPM
CADMIUM	NMT 2 PPM	NMT 4 PPM	NMT 2 PPM	NMT 2 PPM	NMT 2 PPM
ARSENIC	NMT 2 PPM	NMT 5 PPM	NMT 2 PPM	NMT 2 PPM	NMT 2 PPM
SHELF LIFE	3 YEARS	3 YEARS	3 YEARS	3 YEARS	3 YEARS
PACKING	25 KG HDPE BAG	25 KG HDPE BAG	25 KG HDPE BAG	25 KG HDPE BAG	25 KG HDPE BAG

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