

Offer Sheet

Product	Magnesium Citrate Tribasic Hydrate USP
Quantity	55 lb. bags
Net weight	39,628 lbs.
Condition	On spec surplus
Availability	One time
Location	New Jersey
Date	2/4/26
COA & SDS	Attached below



Brian Svrusis
Solvent Systems International
575 Bennett Road
Elk Grove Village, IL 60007
847-323-6718 call or text
Click here for: [Surplus Inventory](#)
Solvent-Systems.com

Magnesium Citrate Tribasic Hydrate USP is a high-purity pharmaceutical/food-grade magnesium salt primarily valued for its **osmotic laxative effect, magnesium supplementation, and formulation compatibility**. Commercial demand is concentrated in **pharmaceuticals, nutraceuticals, clinical nutrition, and specialty food applications**. Below is a practical, end-market breakdown.

1. Pharmaceutical Products (largest commercial use)

Primary function:

Osmotic laxative and bowel preparation agent

Common commercial formats:

- Oral solutions and syrups
- Powder sachets for reconstitution
- Ready-to-drink bottles

Uses include:

- Constipation relief
- Pre-procedure bowel cleansing (colonoscopies, imaging)

Why preferred:

- Predictable laxative action
- High bioavailability of magnesium
- USP compliance for regulated drug manufacturing

Primary buyers:

Pharmaceutical manufacturers, contract drug manufacturers (CDMOs)

2. Dietary Supplements & Nutraceuticals

Used as:

- Magnesium mineral supplement (capsules, powders, effervescent drinks)

Benefits marketed:

- Muscle function support
- Nerve health
- Bone support
- Digestive regularity

Why citrate form is popular:

- Higher absorption vs magnesium oxide
- Gentle GI profile at supplement doses

Buyers:

Supplement brands, private label manufacturers, functional beverage producers

3. Clinical Nutrition & Medical Foods

Applications:

- Electrolyte replenishment formulas
- Hospital nutrition products
- Geriatric and digestive health formulations

Buyers:

Medical nutrition companies, hospital supply formulators

4. Food & Beverage (specialty use)

USP/food-grade magnesium citrate may be used as:

- Mineral fortification ingredient
- Acidity regulator (limited use)
- Nutritional enhancement in functional foods and drinks

Examples:

- Fortified waters
- Wellness beverages
- Powder drink mixes

Buyers:

Functional food manufacturers, beverage brands

5. Research & Compounding Pharmacies

Used in:

- Custom compounded laxative preparations
- Clinical research formulations

Buyers:

Compounding pharmacies, research labs

CERTIFICATE OF ANALYSIS

206201(M10511)

PRODUCTS:	Magnesium Citrate Tribasic Hydrate USP	TESTING DATE:	FEB.04.2024
BATCH NO:	40260001	MANUFACTUREDATE:	FEB.04.2024
QUANTITY:	18000KG	EXPIRY DATE:	FEB.03.2027

ITEMS	SPECIFICATIONS	RESULTS	METHOD
Appearance	White to off-white powder	Complies	Visual
Odor	Characteristic	Complies	Sensory
Identification	The FT infrared spectrum of the sample compares qualitatively to the infrared spectrum of the standard or the near infrared spectra of the sample compares to the near infrared library for this material	Complies	USP <197>
	Meets the USP Requirements for Magnesium	Complies	USP <191>
	Meets the USP Requirements for citrate	Complies	USP <191>
Magnesium (Citrate)	14.5% - 16.4% (on dried basis)	16.0%	---
pH	5.0 - 9.0 (in a suspension 50 mg/mL)	6.6	USP<791>
Loss on drying	≤29.0%	25.3%	USP<731>
Particle size	100% through #40 mesh	100%	USP<786>
	≥80% through #80 mesh	90.4%	USP<786>
Bulk density	≥0.70 g/mL	0.82 g/mL	USP<616>
Chloride	≤0.05%	<0.05%	USP<221>
Sulfate	≤0.2%	<0.2%	USP<221>
Iron	≤200 ppm	<100 ppm	USP<241>
Limit of calcium	≤1.0%	<0.2%	USP
Arsenic	≤1.0 ppm	<1.0 ppm	USP<233>
Lead	≤0.13 ppm	<0.13	USP<233>
Cadmium	≤1.0 ppm	<1.0 ppm	USP<233>
Mercury	≤0.1 ppm	<0.1 ppm	USP<233>
Total plate count	<3,000 CFU/g	10 CFU/g	USP <2021>
Mold and yeast	<300 CFU/g	<10 CFU/g	USP <2021>
Escherichia Coli	Negative	Negative	USP <2022>

Salmonella	Negative	Negative	USP <2022>
Staphylococcus aureus	Negative	Negative	USP <2022>

CONCLUSION: Conform to the specification.

STORAGE: Store in cool and dry place. Keep away from strong light and heat.

OPERATOR: 徐翠萍

AUDITOR: 赵维

DATE: FEB.09.2024



Magnesium Citrate Tribasic Hydrate USP

****** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ******

MSDS Name: Magnesium Citrate Tribasic Hydrate USP

****** SECTION 2 - HAZARDS IDENTIFICATION ******

The hazard classification of the chemical:

Classification according to Regulation (EC) No 1272/2008:

The product is not considered to be hazardous.

Hazard pictogram: None.

Signal word: None.

Hazard statements: None.

Precautionary statements: None.

Other hazards: None.

****** SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS ******

CAS#	Name	Content
3344-18-1	Magnesium Citrate Tribasic Hydrate	100%

****** SECTION 4 - FIRST AID MEASURES ******

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion:

Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration.

MATERIAL SAFETY DATA SHEET

If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

Treat symptomatically and supportively.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Special Remarks on Explosion Hazards: Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits: Not available.

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by

MATERIAL SAFETY DATA SHEET

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Appearance:	White to off-white powder
Odor:	Characteristic
Vapor pressure:	Not available
Bulk density:	≥0.70 g/mL
Evaporation rate:	Not available
Viscosity:	Not available
pH:	5.0-9.0
Flash point:	Not available
Autoignition temperature:	Not available
Cloudy point:	Not available
Boiling point:	Not available
Melting point:	Not available
Specific rotation:	Not available
Decomposition temperature:	Not available
Solubility in water:	Not available

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Excess heat, incompatible materials.

Incompatibilities with Other Materials:

Not available.

Hazardous Polymerization: Has not been reported.

Corrosivity: Not available.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

MATERIAL SAFETY DATA SHEET

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

LD₅₀/LC₅₀:

Acute oral toxicity (LD₅₀): No information available.

Carcinogenicity:

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology:

No information available.

Teratogenicity:

No information available.

Reproductive Effects:

No information available.

Neurotoxicity:

No information available.

Mutagenicity:

No information available.

Other Studies:

See actual entry in RTECS for complete information.

**** SECTION 12 - ECOLOGICAL INFORMATION****

Toxicity

Aquatic toxicity: Lack of data.

Water Hazard Class: Lack of data.

Persistence and degradability

Further details: Biodegradability in Water: Lack of data.

Bioaccumulative potential

Partition coefficient n-octanol/water: Lack of data.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Endocrine disrupting properties

No data available.

Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

MATERIAL SAFETY DATA SHEET

**** SECTION 14 - TRANSPORT INFORMATION ****

UN number

ADR, ADN, IMDG, IATA: Not regulated.

UN proper shipping name

ADR, ADN, IMDG, IATA: Not regulated.

Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class: Not regulated.

Packing group

ADR, IMDG, IATA: Not regulated.

Environmental hazards

Marine pollutant: Not applicable.

Special precautions for user

Not available.

Transport in bulk according to Annex II of Marpol and the IBC Code

UN "Model Regulation": Not applicable.

**** SECTION 15 - REGULATORY INFORMATION ****

Federal and State Regulations

TSCA

Not listed on the TSCA inventory.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313

No chemicals are reportable under Section 313.

OSHA

None of the chemicals in this product are considered highly hazardous by OSHA.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

WGK (Water Danger/Protection)

No information available.

Canada-WHMIS

Not controlled.

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS creation date: 12/21/2023 Last updated: 12/21/2023

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be

MATERIAL SAFETY DATA SHEET

liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.