

50% MAGNESIUM SULFATE- 50% magnesium sulfate injection, solution
HF Acquisition Co. LLC, DBA Health First

50% MAGNESIUM SULFATE INJECTION, USP 5grams/10mL ANSYR SYR

SPL Unclassified

Magnesium Sulfate
Injection, USP
AnsyTM Plastic Syringe

Rx only

Description

Magnesium Sulfate Injection, USP is a sterile solution of magnesium sulfate heptahydrate in Water for Injection, USP administered by the intravenous or intramuscular routes as an electrolyte replenisher or anticonvulsant. Must be diluted before intravenous use. May contain sulfuric acid and/or sodium hydroxide for pH adjustment. The pH is 5.5 to 7.0. The 50% concentration has an osmolarity of 4.06 mOsmol/mL (calc.).

The solution contains no bacteriostat, antimicrobial agent or added buffer (except for pH adjustment) and is intended only for use as a single-dose injection. When smaller doses are required the unused portion should be discarded with the entire unit.

Magnesium Sulfate, USP heptahydrate is chemically designated $MgSO_4 \cdot 7H_2O$ with molecular weight of 246.48 and occurs as colorless crystals or white powder freely soluble in water.

The plastic syringe is molded from a specially formulated polypropylene. Water permeates from inside the container at an extremely slow rate which will have an insignificant effect on solution concentration over the expected shelf life. Solutions in contact with the plastic container may leach out certain chemical components from the plastic in very small amounts; however, biological testing was supportive of the safety of the syringe material.

Clinical Pharmacology

Magnesium (Mg^{++}) is an important cofactor for enzymatic reactions and plays an important role in neurochemical transmission and muscular excitability.

As a nutritional adjunct in hyperalimentation, the precise mechanism of action for magnesium is uncertain. Early symptoms of hypomagnesemia (less than 1.5 mEq/liter) may develop as early as three to four days or within weeks.

Predominant deficiency effects are neurological, e.g., muscle irritability, clonic twitching

and tremors. Hypocalcemia and hypokalemia often follow low serum levels of magnesium. While there are large stores of magnesium present intracellularly and in the bones of adults, these stores often are not mobilized sufficiently to maintain plasma levels. Parenteral magnesium therapy repairs the plasma deficit and causes deficiency symptoms and signs to cease.

Magnesium prevents or controls convulsions by blocking neuromuscular transmission and decreasing the amount of acetylcholine liberated at the end plate by the motor nerve impulse. Magnesium is said to have a depressant effect on the central nervous system (CNS), but it does not adversely affect the woman, fetus or neonate when used as directed in eclampsia or pre-eclampsia. Normal plasma magnesium levels range from 1.5 to 2.5 mEq/liter.

As plasma magnesium rises above 4 mEq/liter, the deep tendon reflexes are first decreased and then disappear as the plasma level approaches 10 mEq/liter. At this level respiratory paralysis may occur. Heart block also may occur at this or lower plasma levels of magnesium. Serum magnesium concentrations in excess of 12 mEq/L may be fatal.

Magnesium acts peripherally to produce vasodilation. With low doses only flushing and sweating occur, but larger doses cause lowering of blood pressure. The central and peripheral effects of magnesium poisoning are antagonized to some extent by intravenous administration of calcium.

Pharmacokinetics

With intravenous administration the onset of anticonvulsant action is immediate and lasts about 30 minutes. Following intramuscular administration the onset of action occurs in about one hour and persists for three to four hours. Effective anticonvulsant serum levels range from 2.5 to 7.5 mEq/liter. Magnesium is excreted solely by the kidneys at a rate proportional to the plasma concentration and glomerular filtration.

Indications and Usage

Magnesium Sulfate Injection, USP is suitable for replacement therapy in magnesium deficiency, especially in acute hypomagnesemia accompanied by signs of tetany similar to those observed in hypocalcemia. In such cases, the serum magnesium (Mg^{++}) level is usually below the lower limit of normal (1.5 to 2.5 mEq/liter) and the serum calcium (Ca^{++}) level is normal (4.3 to 5.3 mEq/liter) or elevated.

In total parenteral nutrition (TPN), magnesium sulfate may be added to the nutrient admixture to correct or prevent hypomagnesemia which can arise during the course of therapy.

Magnesium Sulfate Injection, USP is also indicated for the prevention and control of seizures (convulsions) in pre-eclampsia and eclampsia, respectively.

Contraindications

Parenteral administration of the drug is contraindicated in patients with heart block or myocardial damage.

Warnings

FETAL HARM: Continuous administration of magnesium sulfate beyond 5 to 7 days to pregnant women can lead to hypocalcemia and bone abnormalities in the developing fetus. These bone abnormalities include skeletal demineralization and osteopenia. In addition, cases of neonatal fracture have been reported. The shortest duration of treatment that can lead to fetal harm is not known. Magnesium sulfate should be used during pregnancy only if clearly needed. If magnesium sulfate is given for treatment of preterm labor, the woman should be informed that the efficacy and safety of such use have not been established and that use of magnesium sulfate beyond 5 to 7 days may cause fetal abnormalities.

ALUMINUM TOXICITY: This product contains aluminum that may be toxic. Aluminum may reach toxic levels with prolonged parenteral administration if kidney function is impaired. Premature neonates are particularly at risk because their kidneys are immature, and they require large amounts of calcium and phosphate solutions, which contain aluminum.

Research indicates that patients with impaired kidney function, including premature neonates, who receive parenteral levels of aluminum at greater than 4 to 5 mcg/kg/day accumulate aluminum at levels associated with central nervous system and bone toxicity. Tissue loading may occur at even lower rates of administration.

Parenteral use in the presence of renal insufficiency may lead to magnesium intoxication. Intravenous use in the eclampsia should be reserved for immediate control of life-threatening convulsions.

Precautions

General

Administer with caution if flushing and sweating occurs. When barbiturates, narcotics or other hypnotics (or systemic anesthetics) are to be given in conjunction with magnesium, their dosage should be adjusted with caution because of additive CNS depressant effects of magnesium.

Because magnesium is removed from the body solely by the kidneys, the drug should be used with caution in patients with renal impairment. Urine output should be maintained at a level of 100 mL or more during the four hours preceding each dose. Monitoring serum magnesium levels and the patient's clinical status is essential to avoid the consequences of overdosage in toxemia. Clinical indications of a safe dosage regimen include the presence of the patellar reflex (knee jerk) and absence of respiratory depression (approximately 16 breaths or more/minute). When repeated doses of the drug are given parenterally, knee jerk reflexes should be tested before each dose and if they are absent, no additional magnesium should be given until they return. Serum magnesium levels usually sufficient to control convulsions range from 3 to 6 mg/100 mL (2.5 to 5 mEq/liter). The strength of the deep tendon reflexes begins to diminish when magnesium levels exceed 4 mEq/liter. Reflexes may be absent at 10 mEq magnesium/liter, where respiratory paralysis is a potential hazard. An injectable calcium salt should be immediately available to counteract the potential hazards of magnesium intoxication in eclampsia.

50% Magnesium Sulfate Injection, USP must be diluted to a concentration of 20% or less

prior to intravenous infusion. Rate of administration should be slow and cautious, to avoid producing hypermagnesemia. The 50% solution also should be diluted to 20% or less for intramuscular injection in infants and children.

Laboratory Tests

Magnesium sulfate injection should not be given unless hypomagnesemia has been confirmed and the serum concentration of magnesium is monitored. The normal serum level is 1.5 to 2.5 mEq/L.

Drug Interactions

CNS Depressants — When barbiturates, narcotics or other hypnotics (or systemic anesthetics), or other CNS depressants are to be given in conjunction with magnesium, their dosage should be adjusted with caution because of additive CNS depressant effects of magnesium. CNS depression and peripheral transmission defects produced by magnesium may be antagonized by calcium.

Neuromuscular Blocking Agents — Excessive neuromuscular block has occurred in patients receiving parenteral magnesium sulfate and a neuromuscular blocking agent; these drugs should be administered concomitantly with caution.

Cardiac Glycosides — Magnesium sulfate should be administered with extreme caution in digitalized patients, because serious changes in cardiac conduction which can result in heart block may occur if administration of calcium is required to treat magnesium toxicity.

Pregnancy (See Warnings and Precautions)

Teratogenic Effects

Magnesium sulfate can cause fetal abnormalities when administered beyond 5 to 7 days to pregnant women. There are retrospective epidemiological studies and case reports documenting fetal abnormalities such as hypocalcemia, skeletal demineralization, osteopenia and other skeletal abnormalities with continuous maternal administration of magnesium sulfate for more than 5 to 7 days.¹⁻¹⁰ Magnesium sulfate injection should be used during pregnancy only if clearly needed. If this drug is used during pregnancy, the woman should be apprised of the potential harm to the fetus.

Nonteratogenic Effects

When administered by continuous intravenous infusion (especially for more than 24 hours preceding delivery) to control convulsions in a toxemic woman, the newborn may show signs of magnesium toxicity, including neuromuscular or respiratory depression (See Overdosage).

Labor and Delivery

Continuous administration of magnesium sulfate is an unapproved treatment for preterm labor. The safety and efficacy of such use have not been established. The administration of magnesium sulfate outside of its approved indication in pregnant women should be by trained obstetrical personnel in a hospital setting with appropriate obstetrical care facilities.

Nursing Mothers

Since magnesium is distributed into milk during parenteral magnesium sulfate

administration, the drug should be used with caution in nursing women.

Geriatrics

Geriatric patients often require reduced dosage because of impaired renal function. In patients with severe impairment, dosage should not exceed 20 grams in 48 hours. Serum magnesium should be monitored in such patients.

Adverse Reactions

The adverse effects of parenterally administered magnesium usually are the result of magnesium intoxication. These include flushing, sweating, hypotension, depressed reflexes, flaccid paralysis, hypothermia, circulatory collapse, cardiac and central nervous system depression proceeding to respiratory paralysis. Hypocalcemia with signs of tetany secondary to magnesium sulfate therapy for eclampsia has been reported.

Overdosage

Magnesium intoxication is manifested by a sharp drop in blood pressure and respiratory paralysis. Disappearance of the patellar reflex is a useful clinical sign to detect the onset of magnesium intoxication. In the event of overdosage, artificial ventilation must be provided until a calcium salt can be injected intravenously to antagonize the effects of magnesium.

For Treatment of Overdose

Artificial respiration is often required. Intravenous calcium, 10 to 20 mL of a 5% solution (diluted if desirable with isotonic sodium chloride for injection) is used to counteract effects of hypermagnesemia. Subcutaneous physostigmine, 0.5 to 1 mg may be helpful.

Hypermagnesemia in the newborn may require resuscitation and assisted ventilation via endotracheal intubation or intermittent positive pressure ventilation as well as intravenous calcium.

Dosage and Administration

Dosage of magnesium sulfate must be carefully adjusted according to individual requirements and response, and administration of the drug should be discontinued as soon as the desired effect is obtained.

Both intravenous and intramuscular administration are appropriate. Intramuscular administration of the undiluted 50% solution results in therapeutic plasma levels in 60 minutes, whereas intravenous doses will provide a therapeutic level almost immediately. The rate of intravenous injection should generally not exceed 150 mg/minute (1.5 mL of a 10% concentration or its equivalent), except in severe eclampsia with seizures (see below). Continuous maternal administration of magnesium sulfate in pregnancy beyond 5 to 7 days can cause fetal abnormalities.

Solutions for intravenous infusion must be diluted to a concentration of 20% or less prior to administration. The diluents commonly used are 5% Dextrose Injection, USP and 0.9% Sodium Chloride Injection, USP. Deep intramuscular injection of the undiluted (50%) solution is appropriate for adults, but the solution should be diluted to a 20% or

less concentration prior to such injection in children.

In Magnesium Deficiency

In the treatment of mild magnesium deficiency, the usual adult dose is 1 gram, equivalent to 8.12 mEq of magnesium (2 mL of the 50% solution) injected intramuscularly every six hours for four doses (equivalent to a total of 32.5 mEq of magnesium per 24 hours). For severe hypomagnesemia, as much as 250 mg (approximately 2 mEq) per kg of body weight (0.5 mL of the 50% solution) may be given intramuscularly within a period of four hours if necessary. Alternatively, 5 grams, (approximately 40 mEq) can be added to one liter of 5% Dextrose Injection, USP or 0.9% Sodium Chloride Injection, USP for slow intravenous infusion over a three-hour period. In the treatment of deficiency states, caution must be observed to prevent exceeding the renal excretory capacity.

In Hyperalimentation

In TPN, maintenance requirements for magnesium are not precisely known. The maintenance dose used in adults ranges from 8 to 24 mEq (1 gram to 3 grams) daily; for infants, the range is 2 to 10 mEq (0.25 gram to 1.25 grams) daily.

In Pre-eclampsia or Eclampsia

In severe pre-eclampsia or eclampsia, the total initial dose is 10 grams to 14 grams of magnesium sulfate. Intravenously, a dose of 4 grams to 5 grams in 250 mL of 5% Dextrose Injection, USP or 0.9% Sodium Chloride Injection, USP may be infused. Simultaneously, intramuscular doses of up to 10 grams (5 grams or 10 mL of the undiluted 50% solution in each buttock) are given. Alternatively, the initial intravenous dose of 4 grams may be given by diluting the 50% solution to a 10 or 20% concentration; the diluted fluid (40 mL of a 10% solution or 20 mL of a 20% solution) may then be injected intravenously over a period of three to four minutes. Subsequently, 4 grams to 5 grams (8 to 10 mL of the 50% solution) are injected intramuscularly into alternate buttocks every four hours as needed, depending on the continuing presence of the patellar reflex and adequate respiratory function. Alternatively, after the initial intravenous dose, some clinicians administer 1 gram to 2 grams/hour by constant intravenous infusion. Therapy should continue until paroxysms cease. A serum magnesium level of 6 mg/100 mL is considered optimal for control of seizures. A total daily (24 hr) dose of 30 grams to 40 grams should not be exceeded. In the presence of severe renal insufficiency, the maximum dosage of magnesium sulfate is 20 grams/48 hours and frequent serum magnesium concentrations must be obtained. Continuous use of magnesium sulfate in pregnancy beyond 5 to 7 days can cause fetal abnormalities.

Other Uses

In counteracting the muscle-stimulating effects of barium poisoning, the usual dose of magnesium sulfate is 1 gram to 2 grams given intravenously.

For controlling seizures associated with epilepsy, glomerulonephritis or hypothyroidism, the usual adult dose is 1 gram administered intramuscularly or intravenously.

In paroxysmal atrial tachycardia, magnesium should be used only if simpler measures have failed and there is no evidence of myocardial damage. The usual dose is 3 grams to 4 grams (30 to 40 mL of a 10% solution) administered intravenously over 30 seconds with extreme caution.

For reduction of cerebral edema, 2.5 grams (25 mL of a 10% solution) is given intravenously.

Incompatibilities

Magnesium sulfate in solution may result in a precipitate formation when mixed with solutions containing:

Alcohol (in high Heavy Metals concentrations)
Hydrocortisone sodium bicarbonates
Phosphates
Alkali hydroxides
Polymixin B sulfate
Arsenates
Procaine hydrochloride
Barium Salicylates
Calcium Strontium
Clindamycin phosphate
Tartrates

The potential incompatibility will often be influenced by the changes in the concentration of reactants and the pH of the solutions.

It has been reported that magnesium may reduce the antibiotic activity of streptomycin, tetracycline and tobramycin when given together.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

How Supplied

50% MAGNESIUM SULFATE INJECTION, USP is supplied in the following dosage forms.
NDC 51662-1235-1

50% MAGNESIUM SULFATE INJECTION, USP 5grams/10mL ANSYR SYR

NDC 51662-1235-2 50% MAGNESIUM SULFATE INJECTION, USP 5grams/10mL ANSYR SYR in a Pouch

NDC 51662-1235-3 Case of 10 of 50% MAGNESIUM SULFATE INJECTION, USP 5grams/10mL ANSYR SYR in a Pouch

HF Acquisition Co LLC, DBA HealthFirst

Mukilteo, WA 98275

Also supplied in the following manufacture supplied dosage forms

Magnesium Sulfate Injection, USP is supplied in single-dose containers as follows:

NDC No.	Container	Total Amount	Concentration	mEq Mg ⁺⁺ /mL
0409-1754-10	Ansy TM Plastic Syringe	5 g/10 mL	50%	4 mEq/mL

Do not administer unless solution is clear and container is undamaged. Discard unused portion.

Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.]

References

1. Yokoyama K, Takahashi N, Yada Y. Prolonged maternal magnesium administration and bone metabolism in neonates. *Early Hum Dev.* 2010;86(3):187-91. Epub 2010 Mar 12.
2. Wedig KE, Kogan J, Schorry EK et al. Skeletal demineralization and fractures caused by fetal magnesium toxicity. *J. Perinatol.* 2006; 26(6):371-4.
3. Nassar AH, Sakhel K, Maarouf H, et al. Adverse maternal and neonatal outcome of prolonged course of magnesium sulfate tocolysis. *Acta Obstet Gynecol Scan.* 2006;85(9):1099-103.
4. Malaeb SN, Rassi A, Haddad MC. Bone mineralization in newborns whose mothers

Principle Display Panel, Syringe Carton

10 mL

NDC 0409-1754-10

Rx only

50%

Magnesium

Sulfate

Injection, USP

5 g/10 mL (500 mg/mL)

(4 mEq Mg⁺⁺/mL)

AnsyTM

Single-dose syringe

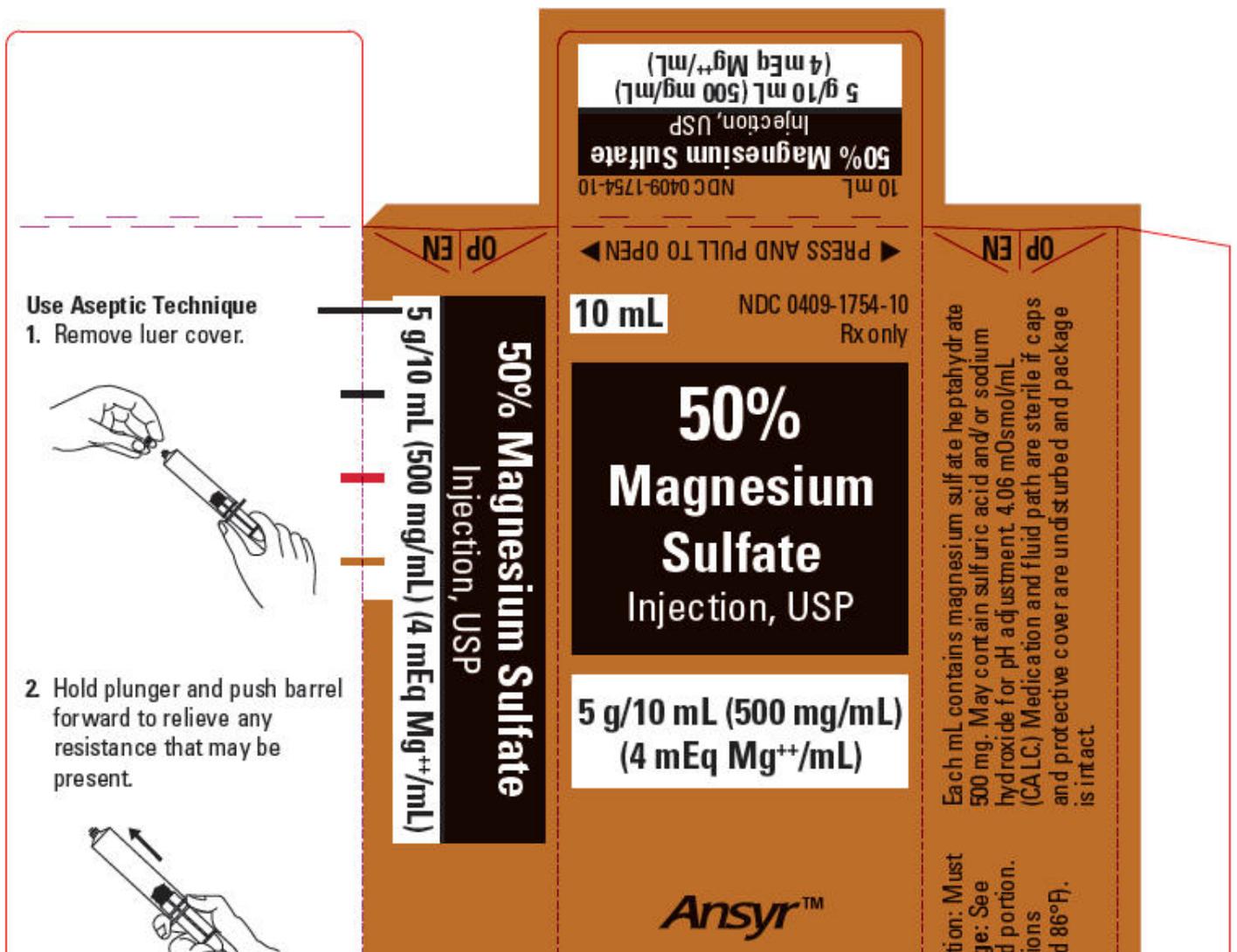
CAUTION:

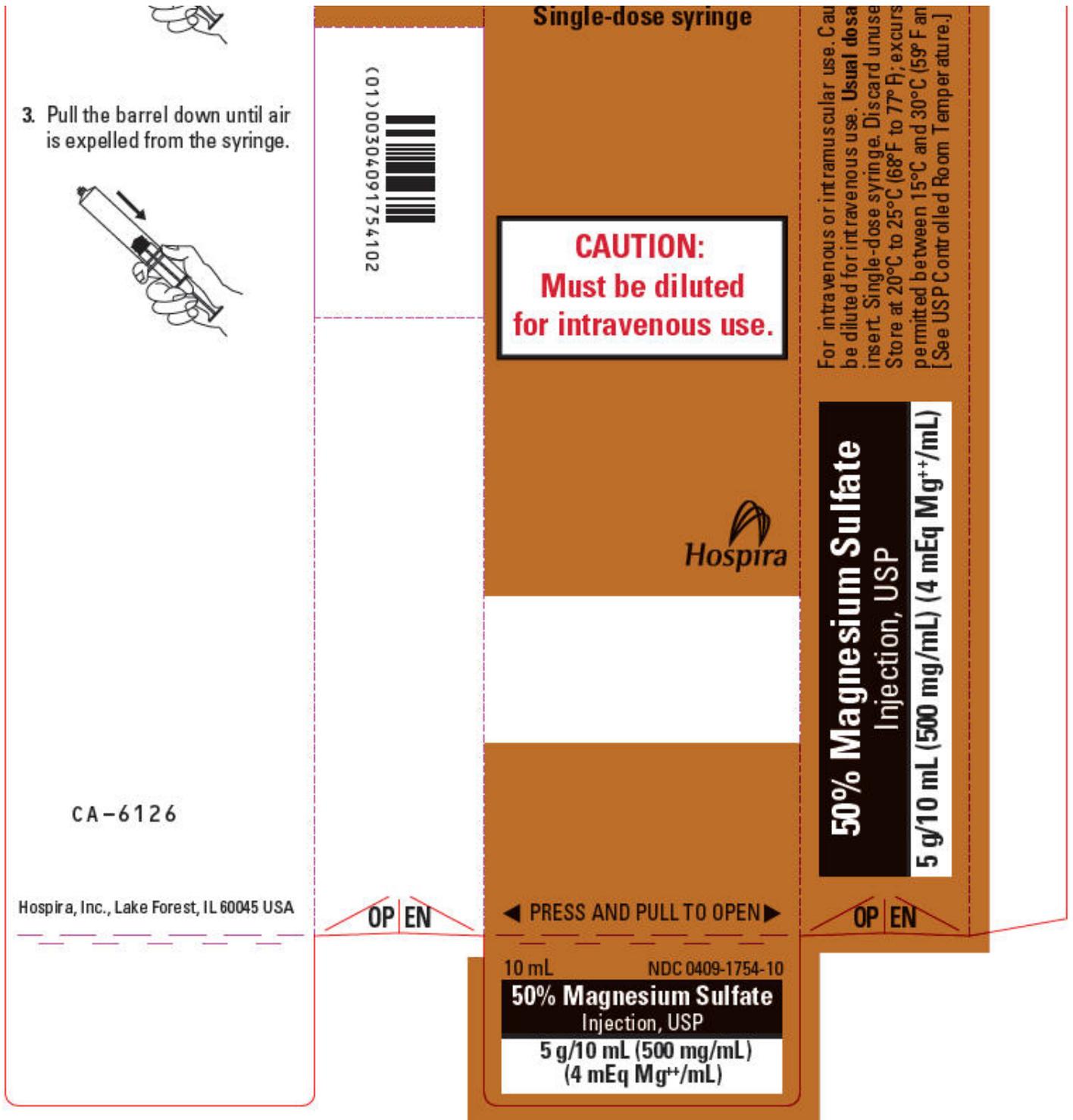
Must be diluted

for intravenous use.

Hospira

◀ PRESS AND PULL TO OPEN ▶





Principle Display Panel, Syringe Label

50% Magnesium Sulfate 5 g/10 mL (500 mg/mL)

Rx only

NDC 0409-1754-10

10 mL Single-dose syringe

50% Magnesium Sulfate Injection, USP

5 g/10 mL (500 mg/mL) (4 mEq Mg⁺⁺/mL)

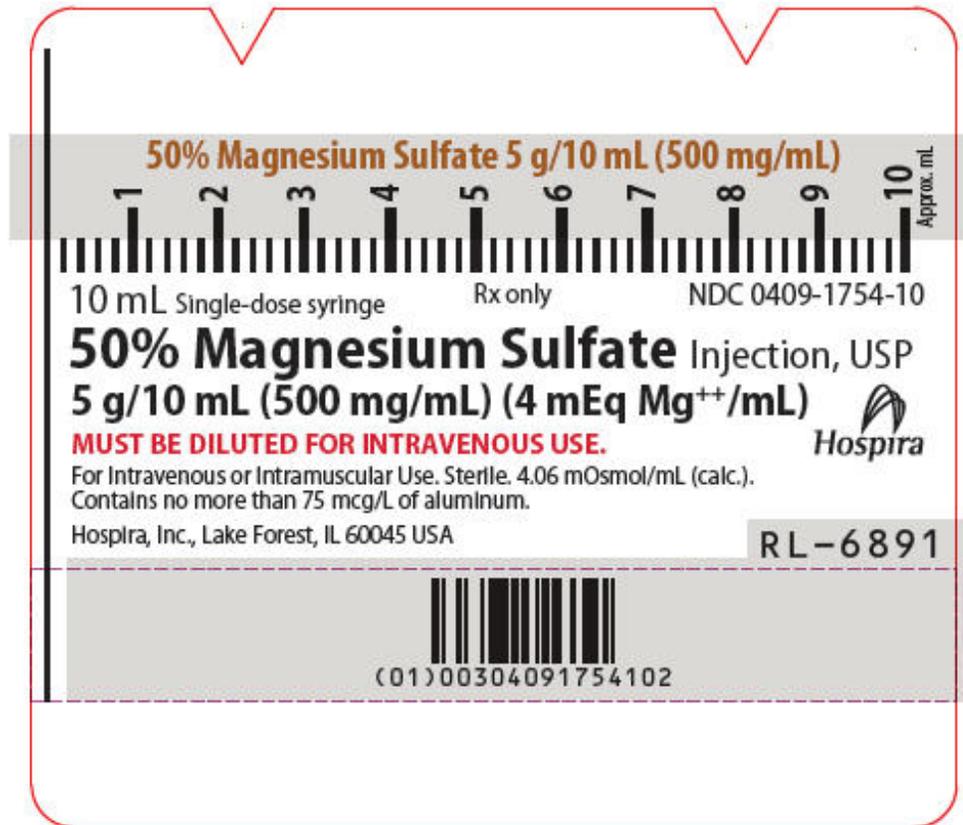
MUST BE DILUTED FOR INTRAVENOUS USE.

For Intravenous or Intramuscular Use. Sterile. 4.06 mOsmol/mL (calc.).
Contains no more than 75 mcg/L of aluminum.

Hospira, Inc., Lake Forest, IL 60045 USA

Hospira

RL-6891



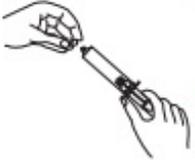
PRINCIPAL DISPLAY PANEL - NDC 51662-1235-1 - SERIALIZED LABEL



PRINCIPAL DISPLAY PANEL - NDC 0409-1754-15 CARTON LABEL

Use Aseptic Technique

1. Remove luer cover.



2. Hold plunger and push barrel forward to relieve any resistance that may be present.



3. Pull the barrel down until air is expelled from the syringe.



10 mL NDC 0409-1754-15
Rx only

50% Magnesium Sulfate
Injection, USP

5 g/10 mL (500 mg/mL)
(4 mEq Mg⁺⁺/mL)

50% Magnesium Sulfate
Injection, USP

5 g/10 mL (500 mg/mL)
(4 mEq Mg⁺⁺/mL)

Ansyr™
Single-dose syringe

CAUTION:
Must be diluted
for intravenous use.

Hospira

LOT #####
EXP DMMYYYY

LOT #####
EXP DMMYYYY

10 mL NDC 0409-1754-15
50% Magnesium Sulfate
Injection, USP
5 g/10 mL (500 mg/mL)
(4 mEq Mg⁺⁺/mL)

50% Magnesium Sulfate
Injection, USP
5 g/10 mL (500 mg/mL)
(4 mEq Mg⁺⁺/mL)

50% Magnesium Sulfate
Injection, USP
5 g/10 mL (500 mg/mL)
(4 mEq Mg⁺⁺/mL)

Each mL contains magnesium sulfate heptahydrate 500 mg. May contain sulfuric acid and/or sodium hydroxide for pH adjustment, 4.06 m Osmol/L (CALC.) Medication and fluid path are sterile if caps and protective cover are undisturbed and package is intact.

For intravenous or intramuscular use. Caution. Must be diluted for intravenous use. Usual dosage: See insert. Single-dose syringe. Discard unused portion. Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C and 30°C (59°F and 86°F). [See USP Controlled Room Temperature.]

50% Magnesium Sulfate
Injection, USP
5 g/10 mL (500 mg/mL)
(4 mEq Mg⁺⁺/mL)

OP EN ◀ PRESS AND PULL TO OPEN ▶ OP EN

CA-7262

Distributed by Hospira, Inc., Lake Forest, IL 60045 USA

PRINCIPAL DISPLAY PANEL - NDC 0409-1754-15 SYRINGE LABEL

50% Magnesium Sulfate 5 g/10 mL (500 mg/mL)

10 mL Single-dose syringe Rx only NDC 0409-1754-15

50% Magnesium Sulfate Injection, USP
5 g/10 mL (500 mg/mL) (4 mEq Mg⁺⁺/mL)

MUST BE DILUTED FOR INTRAVENOUS USE. *Hospira*

For Intravenous or Intramuscular Use. Sterile. 4.06 mOsmol/mL (calc.).
 Contains no more than 75 mcg/L of aluminum.

Distributed by Hospira, Inc., Lake Forest, IL 60045 USA **RL-7617**

(01) 10304091754154

LOT ##-###-AA
 EXP DMMYYYY

PRINCIPAL DISPLAY PANEL - 51662-1235-2 POUCH
 51662-1235-2 POUCH LABELING

50% MAGNESIUM SULFATE INJECTION, USP
5 grams / 10 mL ANSYR SYR

NDC: 51662-1235-2
LOT: 123456
EXP: 2030-01-01

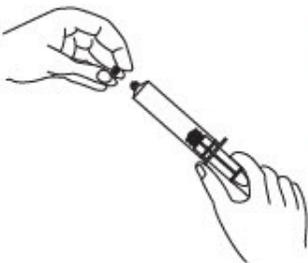
(01) 00351662123522
(10) 123456
(17) 300101
(21) 16142899914

MUST BE DILUTED BEFORE INTRAVENOUS USE. FOR INTRAVENOUS OR INTRAMUSCULAR USE. STERILE. EACH ML CONTAINS MAGNESIUM SULFATE HEPTAHYDRATE 500 mg. MAY CONTAIN SULFURIC ACID AND/OR SODIUM HYDROXIDE FOR pH ADJUSTMENT. 4.06 MOSMOL/ML (CALC.) CONTAINS NO MORE THAN 75 mcg/L OF ALUMINIUM. MEDICATION AND FLUID PATH ARE STERILE IF CAPS AND PROTECTIVE COVER ARE UNDISTURBED AND PACKAGE IS INTACT. USUAL DOSAGE: SEE INSERT. STORE AT 20°C TO 25°C (68°F TO 77°F); EXCURSIONS PERMITTED BETWEEN 15°C AND 30°C (59°F AND 86°F). [SEE USP CONTROLLED ROOM TEMPERATURE.]

See manufacturer's package insert
ORIGINAL MFG NDC: 0409-1754-10
RX ONLY
Manufactured by HF Acquisition Co., LLC
Mukilteo, WA 98275



Use Aseptic Technique
1. Remove luer cover.



2. Hold plunger and push barrel forward to relieve any resistance that may be present.



5 g/10 mL (500 mg/mL) (4 mEq Mg⁺⁺/mL)
Magnesium Sulfate
Injection, USP 50%

10 mL NDC 0409-1754-15
Single-dose syringe Rx only

Magnesium Sulfate
Injection, USP
50%

5 g/10 mL (500 mg/mL)
(4 mEq Mg⁺⁺/mL)

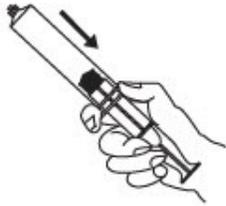
For intravenous or

5 g/10 mL (500 mg/mL)
(4 mEq Mg⁺⁺/mL)
Magnesium Sulfate
Injection, USP 50%
Single-dose syringe
NDC 0409-1754-15

Each mL contains magnesium sulfate heptahydrate 500 mg. May contain sulfuric acid and/or sodium hydroxide for pH adjustment. 4.06 mOsmol/mL (CALC.) Medication and fluid path are sterile if caps and protective cover are undisturbed and package is intact.



3. Pull the barrel down until air is expelled from the syringe.



CA-7395

Distributed by
Hospira, Inc., Lake Forest, IL 60045 USA

(01) 1 0304 0917 5415 4



intramuscular use

AnsyTM

Single-dose syringe

**CAUTION:
Must be diluted
before
intravenous use.**



LOT #####AA
EXP DMMYYYY

For intravenous or intramuscular use. Caution: Must be diluted before intravenous use. Usual dosage: See insert. Single-dose syringe. Discard unused portion. Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C and 30°C (59°F and 86°F). [See USP Controlled Room Temperature.]

Magnesium Sulfate
Injection, USP 50%
5 g/10 mL (500 mg/mL) (4 mEq Mg⁺⁺/mL)

OP EN

◀ PRESS AND PULL TO OPEN ▶

OP EN

10 mL NDC 0409-1754-15
Single-dose syringe

Magnesium Sulfate
Injection, USP 50%

5 g/10 mL (500 mg/mL)
(4 mEq Mg⁺⁺/mL)

Magnesium Sulfate 50% 5 g/10 mL (500 mg/mL)

10 mL Single-dose syringe Rx only NDC 0409-1754-15

Magnesium Sulfate Injection, USP **50%**
5 g/10 mL (500 mg/mL) (4 mEq Mg⁺⁺/mL)

MUST BE DILUTED BEFORE INTRAVENOUS USE.

For Intravenous or Intramuscular Use. Sterile. 4.06 mOsmol/mL (calc.).
 Contains no more than 75 mcg/L of aluminum.

Distributed by Hospira, Inc., Lake Forest, IL 60045 USA

RL-7758

(01)10304091754154

LOT ##-###-AA
 EXP DMMYYYY

PRINCIPAL DISPLAY PANEL 51662-1235-3 CASE LABELING

51662-1235-3 CASE LABEL

50% MAGNESIUM SULFATE INJECTION, USP
5grams/10mL ANSYR SYR (CASE OF 10)

NDC: 51662-1235-3

LOT: 123456

EXP: 2030-01-01

(01) 00351662123539

(10) 123456

(17) 300101

(21) 135060897059

MUST BE DILUTED BEFORE INTRAVENOUS USE. FOR INTRAVENOUS OR INTRAMUSCULAR USE. STERILE. EACH ML CONTAINS MAGNESIUM SULFATE HEPTAHYDRATE 500 mg. MAY CONTAIN SULFURIC ACID AND/OR SODIUM HYDROXIDE FOR pH ADJUSTMENT. 4.06 MG/ML (CALC.) CONTAINS NO MORE THAN 75 mcg/L OF ALUMINIUM. MEDICATION AND FLUID PATH ARE STERILE IF CAPS AND PROTECTIVE COVER ARE UNDISTURBED AND PACKAGE IS INTACT. USUAL DOSAGE: SEE INSERT. STORE AT 20°C TO 25°C (68°F TO 77°F); EXCURSIONS PERMITTED BETWEEN 15°C AND 30°C (59°F AND 86°F). [SEE USP CONTROLLED ROOM TEMPERATURE.]

See manufacturer's package insert

ORIGINAL MFG NDC: 0489-1754-10

RX ONLY

Manufactured by HF Acquisition Co., LLC

Mukilteo, WA 98275

CASE



(01)00351662123539
(17)230919
(21)351662141212
(10)HF1234TESTING

SEE MANUFACTURE'S INSERT
DISTRIBUTED BY HF ACQUISITIONS CO., LLC
MUKILTEO, WA 98275

RX ONLY



50% MAGNESIUM SULFATE

50% magnesium sulfate injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:51662-1235(NDC:0409-1754)
Route of Administration	INTRAMUSCULAR, INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
MAGNESIUM SULFATE HEPTAHYDRATE (UNII: SK47B8698T) (MAGNESIUM	MAGNESIUM SULFATE	500 mg

CATION - UNII:T6V3LHY838)	HEPTAHYDRATE	in 1 mL
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Inactive Ingredients

Ingredient Name	Strength
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
WATER (UNII: 059QF0KO0R)	
SULFURIC ACID (UNII: O40UQP6WCF)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:51662-1235-1	1 in 1 CARTON	08/25/2018	
1		10 mL in 1 SYRINGE, PLASTIC; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		
2	NDC:51662-1235-3	10 in 1 CASE	06/12/2022	
2	NDC:51662-1235-2	1 in 1 POUCH		
2		1 in 1 CARTON		
2		10 mL in 1 SYRINGE, PLASTIC; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA075151	08/25/2018	

Labeler - HF Acquisition Co. LLC, DBA Health First (045657305)

Registrant - HF Acquisition Co. LLC, DBA Health First (045657305)

Establishment

Name	Address	ID/FEI	Business Operations
HF Acquisition Co. LLC, DBA Health First		045657305	relabel(51662-1235)

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