

Magnesium Sulphate

Neonatal

FORM 50% Magnesium Sulphate
2mmol in 1ml ampoules (2ml and 10ml ampoules available)

INDICATION Hypomagnesaemia, Hypocalcaemia.

DOSE RANGE

AGE	DOSE	FREQUENCY	ROUTE
Neonate	0.4mmol/kg	*6-12 hourly as necessary.	IV
1 – 6 months	0.2mmol/kg	12 hourly as necessary.	IV

*Caution with 6 hourly dosing, check magnesium levels before giving repeat doses.
Avoid or reduce dose in renal impairment

RECONSTITUTION Already in solution, **must be diluted further prior to use.**

DILUTION

Magnesium Sulphate 50%	1ml (2mmol)
Sodium Chloride 0.9%	up to total of 5ml

Dosage Guide

- 2mmol in 5ml
- 0.4mmol in 1ml

METHOD OF ADMINISTRATION Administer the required volume as short IV infusion over at least 10 minutes

COMPATIBILITY

Solution compatibility	Sodium chloride 0.45%, Sodium Chloride 0.9%, Glucose 5% & Glucose 10%.
Solution incompatibility	
IV Line compatibility	Dopamine, Dobutamine, Insulin, Morphine, Vancomycin
IV Line incompatibility	Ambisome

THIS LIST IS NOT EXHAUSTIVE PLEASE CONTACT PHARMACY FOR FURTHER INFORMATION ON COMPATIBILITY WITH ANY MEDICINES NOT INCLUDED

CAUTIONS, CONTRA-INDICATIONS AND SIDE EFFECTS

- See Summary of Product Characteristics and most recent edition of BNF for Children (links below)

FURTHER INFORMATION

- Magnesium 50% ampoules contain 5g in 10ml (500mg/ml)
- Monitor serum magnesium, calcium, heart rate & blood pressure.
- Effects of neuromuscular blocking agents may be enhanced

PH 5.8 (diluted solution)

LICENSED STATUS Unlicensed for use in children.

LINKS [BNF for Children:](#) / [Electronic Medicines Compendium](#)

West of Scotland NEONATAL PARENTERAL Drug Monographs

APPLICABLE POLICIES

[West of Scotland Neonatal Guidelines:](#)

Consult local policy if applicable

Document Number:	002	Supersedes:	001
Prepared by:	WoS Neo Pharm Group	Checked by	Hazel Fisher
Date prepared	May 2016	Date updated	September 2019
Updated by	Hazel Fisher	Review Date	September 2022

Administer reconstituted solutions immediately.

All vials, ampoules and infusion bags are for single use only unless otherwise stated.

Dose may vary depending on indication, age, renal function, hepatic function, and concomitant medications.

This monograph should be used in conjunction with the package insert, BNF for Children, and Summary of Product Characteristics. For further advice contact your clinical pharmacist or pharmacy department.