SODIUM BENZOATE This drug must be guardrailed

Trade Name	Amzoate [®] supplied by Onelink				
Class	Ammonium Detoxicant				
Mechanism of Action	Lowers serum ammonia levels by facilitating conjugation of ammonia with glycine to form ammonia hippurate which is then cleared by the kidneys				
Indications	Urea cycle disorder, non-ketotic hyperglycinaemia				
Contraindications	Use with caution in patients with Reyes syndrome.				
	Use with caution in infants with hyperbilirubinaemia, benzoate may displace bilirubin from protein binding sites and increase risk of kernicterus.				
Supplied As	Sodium Benzoate 20% Injection 10mL				
	(20g/100mL = 200mg/mL)				
Dilution	Drug	Add 0.9% Saline, 5%,10% Glucose	Total Volume	Concentration	
	1g (5mL)	45mL	50mL	20mg/mL	
	Can concentrate further to a maximum of 50mg/mL if needed				
Dosage	Loading Dose: 250mg/kg				
Must chart guardrail and use Alaris pump	IV Maintenance: 10-20mg/kg/hr adjusted to response. See infusion sheet				
	Oral Maintenance: 250mg/kg/day adjusted to response				
Guardrails	Conc: Min – 20 mg/mL Max – 50 mg/mL Soft Min: 10 mg/kg/hr Hard Max: 167 mg/kg/hr Soft Max: 20 mg/kg/hr Default: 20 mg/kg/hr				
Interval	Loading Dose: Once only, given over 90 minutes				
	Maintenance: Continuous iv infusion Can be changed to oral 6-8 hourly when stable			ourly when stable	
Administration	IV: acute management – loading dose given over 90minutes and iv initial maintenance then titrated to response				
Oral: maintenance wh			vhen stable		
	Caution: Sodium benzoate can be irritant to eyes, and potentially also skin, lungs and gastrointestinal mucosa. Avoid contact with solution during administration, wear eye protection/goggles, mask and gloves.				
Compatible With	Sodium chloride 0.9%, Dextrose 5% and Dextrose 10%				

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Sodium Benzoate
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Incompatible With	Do not mix with any other medications		
Interactions	Probenecid may decrease clearance of sodium benzoate. Corticosteroids may reduce the effectiveness of sodium		
	benzoate.		
Monitoring	Plasma ammonia and amino acids		
Stability	Single use vial, discard immediately after use		
Storage	Store unopened vials at room temperature		
Adverse Reactions	Nausea, vomiting, irritability, anorexia, metabolic acidosis		
	Sodium benzoate injection solution is very caustic take care to avoid extravasation injury.		
	(Nausea and vomiting may be reduced by giving smaller doses more often)		
Metabolism	Extensively metabolised by the liver Half life = 0.75 – 7.4 hours		
Comments	Section 29 medication.		
	Will need funding approval for discharge		
	Sodium Benzoate Inj 200mg/mL contains 1.4mmol sodium/mL Risk of sodium overload with subsequent hypokalaemia		
References	 Paediatric BNF 2010-11 Taketomo el al Paediatric Dosage Handbook 16th Edition 2009. <u>https://www.nucdf.org/documents/Consensus%20Documents/neonatal.pdf</u> 		
Updated By	A Lynn, B Robertshawe, M Meeks July 2012 A Lynn, B Robertshawe November 2018. A Lynn, B Robertshawe February 2022. (routine review updated supplier + safety practices for administration) Infusion sheet created Aug 2022		