

LIQUIGEN

Trade Name	Liquigen (Nutricia)
Class	Liquid fat emulsion energy supplement of medium chain triglycerides (MCTs).
Mechanism of Action	Medium chain triglycerides dietary supplement which provides additional calories for infants with fat malabsorption and/or faltering growth.
Indications	Preterm infants with faltering growth Chylothorax Malabsorption of long chain triglycerides Cholestatic liver disease TPN induced cholestasis Biliary atresia Short bowel syndrome Long chain fatty acid oxidation disorders Steatorrhoea
Contraindications	If patient is NBM Not suitable for use as a sole source of nutrition Not for parenteral use Medium Chain acyl-CoA dehydrogenase deficiency Multiple acyl-CoA dehydrogenase deficiency 3-Hydroxy-3-methylglutaryl-CoA lyase deficiency
Supplied As	250 ml bottles (0.5g/mL) Liquigen is an emulsion consisting of approximately 50% MCT oil and 50% water.
Dilution	N/A
Dosage	Start with 1g/kg/day (2mL/kg/day). Should be introduced gradually and increased in conjunction with advice from the Dietitian. Maximum dose usually 3g/kg/day but may be increased on the advice of the dietitian
Interval	8 hourly
Administration	Give via nasogastric tube prior to feeds. Can be given orally via a medicine teat if breast feeding or via bottle if bottle feeding.
Compatible With	EBM, Monogen, Pepti Junior, Elecare, premature formula, standard infant formula.

Incompatible With	N/A
Monitoring	Feed tolerance, abdominal distension, stool output. Presence of chyle in pleural effusion in chylothorax
Stability	Manufacture's expiry date.
Storage	Store below 25°C in a dry place. Shelf life 12 months. Once opened store in refrigerator and use within 14 days.
Adverse Reactions	Feed intolerance, osmotic diarrhoea, abdominal distension
Metabolism	Medium chain triglycerides are hydrolysed in the intestinal lumen as medium chain free fatty acids (6-10 carbon atoms) and are adsorbed via the mucosal cells directly into the portal vein and bypass the lymphatic system. MCT is independent of bile acids for absorption therefore is useful for infants with liver disorders. Will not provide essential fatty acids. Liquigen is a fractionated coconut oil. 1 gram of Liquigen provides 9kcal.
Comments	Liquigen is a fat emulsion that consists of medium chain triglycerides and is made from coconut oil.
References	<ol style="list-style-type: none"> 1. SHS compendium 2007 2. Clinical Paediatrics Dietetics, Third edition, Shaw and Lawson 3. Blackwell publishing Ltd, 2007
Updated By	Helen Little, A Lynn July 2011 A Lynn, B Robertshawe Nov 2012 (re-order profile) A Lynn, B Robertshawe, N Clarke March 2022 (no changes)