

Title <b>Summary of Product Characteristics</b>		Date 2008-09-16	Page 1 (5)
Product <b>Vitalipid N Infant</b>		SmPC number <b>SmPC 08-340</b>	
Compiled by Evonne Strand	Approved by Karin Heimdahl	Replaces SmPC number <b>SmPC 05-279 EC</b>	

## 1. NAME OF THE MEDICINAL PRODUCT

Vitalipid N Infant, concentrate for solution for infusion

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

<b>Active ingredients</b>	<b>Per ml</b>	
Retinolpalmitate (corresponding to retinol)	135.3 µg 69 µg	
Phytomenadione	20 µg	
Ergocalciferol	1.0 µg	
all-rac- $\alpha$ -Tocopherol	0.64 mg	
Corresponding to:		
Vitamin A	69 µg	(230 IU)
Vitamin D <sub>2</sub>	1.0 µg	(40 IU)
Vitamin E	0.64 mg	(0.7 IU)
Vitamin K <sub>1</sub>	20 µg	

pH: approx. 8

Osmolality: approx. 300 mosm/kg water

For excipients, see section 6.1

## 3. PHARMACEUTICAL FORM

Concentrate for solution for infusion.

Vitalipid N Infant is a sterile oil-in-water emulsion containing fat-soluble vitamins in the oil phase.

## 4. CLINICAL PARTICULARS

### 4.1 Therapeutic indications

Vitalipid N Infant is indicated in infants and children up to 11 years of age as a supplement in intravenous nutrition to meet the daily requirements of the fat-soluble vitamins A, D<sub>2</sub>, E and K<sub>1</sub>.

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#### **4.2 Posology and method of administration**

4 ml/kg bodyweight/day to preterm and low birth weight infants up to 2.5 kg bodyweight, and 10 ml/day for all infants and children weighing more than 2.5 kg up to 11 years of age.

See section 6.6.

#### **4.3 Contraindications**

Hypersensitivity to egg-, soya- or peanut protein or to any of the active substances or excipients.

#### **4.4 Special warnings and special precautions for use**

This medicinal product contains soya-bean oil and egg phospholipids, which may rarely cause allergic reactions. Cross allergic reaction has been observed between soya-bean and peanut.

Vitaipid N Infant must not be given undiluted.

#### **4.5 Interaction with other medicaments and other forms of interaction**

The presence of trace elements may cause some degradation of vitamin A. Retinol (vitamin A) may be broken down by exposure to ultraviolet light. Vitamin K<sub>1</sub> interacts with anticoagulants of the coumarin type.

#### **4.6 Pregnancy and lactation**

Not applicable.

#### **4.7 Effects on ability to drive and use machines**

Not applicable.

#### **4.8 Undesirable effects**

No adverse effects related to Vitalipid N Infant have been reported.

#### **4.9 Overdose**

Overdoses of fat-soluble vitamins may lead to toxicity syndromes, but there is no evidence of any toxicity at the dosages recommended.

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No adverse effects of a single overdose of fat-soluble vitamins should occur. No specific treatment is needed.

After prolonged infusion of an overdose of Vitamin D, elevated serum concentrations of Vitamin D metabolites may occur. This may cause osteopenia.

Rapid infusion of Vitamin K<sub>1</sub> in colloid water solution may provoke flushing, bronchospasm, tachycardia and hypotension. This has not been reported after infusions of Vitalipid N Infant.

## **5. PHARMACOLOGICAL PROPERTIES**

### **5.1 Pharmacodynamic properties**

Pharmacotherapeutic group: Concentrate for solution for infusion  
ATC-code: B05X C

Vitalipid N Infant is a mixture of fat-soluble vitamins in amounts normally absorbed from the oral diet and should have no pharmacodynamic effect besides maintaining or repleting the nutritional status.

### **5.2 Pharmacokinetic properties**

When infused intravenously, the fat-soluble vitamins in Vitalipid N Infant are metabolized in a similar way to fat-soluble vitamins from an oral diet.

### **5.3 Preclinical safety data**

The safety evaluation of Vitalipid N Infant is based mainly on clinical experience.

## **6. PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

Purified soybean oil  
Purified egg phospholipids  
Glycerol (anhydrous)  
Sodium hydroxide 1 M  
(Water for injections, Ph. Eur., is used for dilution.)  
Water for injections  
Nitrogen

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## 6.2 Incompatibilities

Vitalipid N Infant may only be added to or mixed with other medicinal products for which compatibility has been documented. See section 6.6.

## 6.3 Shelf-life

*Shelf-life of the medicinal product as packaged for sale*  
24 months

## 6.4 Special precautions for storage

Store below 25°C. Protect from light. Do not freeze.

*Storage after mixing*  
See section 6.6.

## 6.5 Nature and contents of container

Type I glass ampoule.

*Pack size:*  
10 x 10 ml.

## 6.6 Instructions for use and handling

Vitalipid N Infant must not be given undiluted.

*Compatibility and instructions for use*

All additions should be made aseptically.

Up to 10 ml (1 ampoule) of Vitalipid N Infant is added to Intralipid 10% or 20%. To ensure a homogeneous admixture, the bottle should be inverted a couple of times immediately before the infusion.

Vitalipid N Infant can be used to dissolve Soluvit Infant. The contents of one vial of Soluvit Infant is dissolved by the addition of 10 ml of Vitalipid N Infant and added to Intralipid 10% or 20%.

For children weighing more than 10 kg Vitalipid N Infant can also be used to dissolve Soluvit N. For children less than 10 kg/bw the dissolution with Soluvit N is not recommended due to differences in dosage regimens.

*Storage after mixing*

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The addition of Vitalipid N Infant to Intralipid 10% or 20% should be made within one hour before the start of the infusion, and the infusion should be completed within 24 hours from preparation to prevent microbiological contamination. The left-over contents of opened bottles/vials/ampoules should be discarded and not kept for later use.

- 7. MARKETING AUTHORISATION HOLDER**
  
- 8. MARKETING AUTHORISATION NUMBER(S)**
  
- 9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**
  
- 10. DATE OF REVISION OF THE TEXT**