

**Natipide<sup>®</sup> II**

**MATERIAL SAFETY DATA SHEET**

**1. Identification of substance/Preparation & Company**

Trade Name - Natipide<sup>®</sup> II

Company:

KUHS GmbH & Co  
 Lingertstraße 3 + 21  
 D-79541 Lörrach  
 Germany  
 Tel: 49 7621-9597-0      Fax: 49 7621-9597-33

Responsible: Chemie & Vorschrift, Kannheideweg 35,d – 53123 Bonn-Duisdorf

**2. Composition & Information on Ingredients**

Chemical Characterization: Preliposome gel  
 CAS-No: 64-17-5  
 Index No: 603-002-00-5  
 EEC-No: 200-578-6  
 Material: Ethanol  
 M%-range: 14-18%  
 Symbol: F  
 R-phrases: R 11

Remarks: Classification and labeling of a product is indicated under item 15.

**3. Hazards Identification**

For humans: Flammable. May form highly flammable vapor-air mixture.  
 For environment: None.  
 For materials: None.

**4. First Aid Measures**

Inhalation: Remove person to fresh air.  
 In the event of symptoms occurring seek medical treatment.  
 Skin Contact: Wash with soap and water.  
 Eye Contact: Flush eyes out immediately with large amounts of water  
 with eyelids lifted.  
 In the event of symptoms occurring seek medical treatment.  
 Ingestion: Rinse mouth out and drink plenty of water.  
 In the event of symptoms occurring seek medical treatment.  
 Note to Physician: Symptomatic Treatment  
 Special Equipment: Not relevant



## TECHNICAL DATA

### 5. Fire Fighting Measures

Suitable extinguishing media:	Use water spray jet only. Foam Dry Chemicals Carbon Dioxide
Extinguishing media to avoid:	None
Fire & explosion hazards:	In case of fire, product may form Organic crack products and carbon oxides.
Additional Information:	Cool containers at risk with water spray jet.
Special Protective Equipment:	Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

### 6. Accidental Release Measures

Personal Precautions:	High risk of slipping due to leakage/spilling of Product. Keep away from sources of ignition.
Environmental Precautions:	Do not allow larger quantities to enter drainage. Inform responsible authorities after accidental conduction of larger quantities. Soak up with absorbent material. Prevent risk of slipping by covering with mineral dispersion material.
Further Information:	None

### 7. Handling & Storage

#### *Handling:*

Precautions for handling:	Provide sufficient ventilation. Keep container tightly closed. Close container straight after use or if empty.
Precautions in case of fire & explosion:	Vapors may form an explosive mixture with air. Keep away from sources of ignition, do not smoke.

#### *Storage:*

Storage instructions:	Floor must be resistant against solvents. Keep in cool Place. Protect container from warming up and direct sunlight. Oxidizers.
Store away from:	
Further information on storage Conditions:	Provide sufficient ventilation.
Storage class:	3A (VCI-Concept)

### 8. Exposure Controls & Personal Protection

Information on System Design:	Provide for sufficient exhaustion. Provide personal protective equipment.
Exposure Limits:	Ethanol – OEL 1000ppm
Personal Protective Equipment:	
General Protection & Hygiene:	Do not inhale vapors. Avoid prolonged contact with skin. Avoid contact with eyes. Remove contaminated clothing.

## TECHNICAL DATA

Respiratory Protection:	No
Hand Protection:	In case of prolonged skin contact, use protective gloves.
Eye Protection:	Goggles.
Skin Protection:	Not relevant.
Further Information:	Refer to special restrictions in wearing protective equipment.

### 9. Physical and Chemical Properties

#### Appearance:

Form:	Pasty
Color:	Amber
Odor:	Characteristic

#### Safety Relevant Data:

PH-value undiluted:	5-8
Boiling Point/boiling range (°C):	<100, Melting Point/Melting range (°C): <0
Flash Point (°C, c.c.):	79
Flammability (EEC A10/a13):	N/A
Ignition Temperature (°C):	Not available
Autoflammability (EEC A16):	N/A
Oxidising Properties:	None
Explosion hazard:	None
Explosion limits (Vol%) lower:	3,5 (Lit. Ethanol); upper: 15 (Lit.Ethanol)
Vapor Pressure:	Not available
Density (g/ml):	Not available
Solubility (in water):	Miscible Dispersible in polar solvents.
Partition coefficient, n-Octanol/Water:	Not available
Viscosity:	3000-7000 mPa
Solvent separation test:	Not available.
Solvent Content (m %):	14-18
Thermal decomposition:	Not available
Vapor Density (Air=1):	Vapors are heavier than air.
Evaporation rate:	Not available.

### 10. Stability and Reactivity

Conditions to avoid:	Sparks Flames Static charge
Materials to avoid:	Reactions with strong oxidizing agents
Hazardous decomposition products:	No dangerous decomposition products When properly handled.

### 11. Toxicological Information

#### Toxicological Tests:

#### Acute Health Effects:

Inhalation, LC <sub>50</sub> rat (mg/l/4h):	Not available
Ingestion, LD <sub>50</sub> rat, (mg/kg):	Not available
Skin –contact, LD <sub>50</sub> rat (mg/kg):	Not available
Irritation (to skin/eye):	No.



## TECHNICAL DATA

Sensitization:	No.
Subacute/Chronic Toxicity:	
Carcinogenicity:	No.
Mutagenicity:	Not available
Teratogenicity:	Not available
Narcotic Effects:	None.
Practical Experience:	
Observations relevant for classification:	None
Further Observations:	None
General Remarks:	Classification of the preparation has been done by calculation in accordance with EEC directives.

### 12. Ecological Information

Elimination (Persistence & Degradability):	This product is biodegradable.
Behavior in Sewage works:	N/A
Ecotoxic Effects, Aquatic Toxicity:	According to present knowledge no negative ecological reactions are to be expected.
COD-Value, mg/g:	Not available.
BOD <sup>5</sup> -Value, mg/g:	Not available.
AOX-Remarks:	N/A
Significant Components:	None

### 13. Disposal Considerations

<i>Residues:</i>	
Recommendation:	R 2 / D 10
Waste-Code-No:	07 06 99
	In addition comply with the regional authorities
<i>Contaminated Packaging:</i>	
Recommendation:	Wash with suitable cleaner. Otherwise described under residues.
Safe Handling:	As described under residues.

### 14. Transport Information

Transportation by road or railway according to ADR/GGVS and RID/GGVE	
Remarks:	No dangerous goods according to ADR

### 15. Other Information

The Material Safety Data Sheet relates to 93/112/EEC and TRGS 220.  
The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties.

2/14/06



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