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1 Identification of the substance/mixture and of the company/undertaking

· **Informations to product No. 5722**

· **Product name:**

Vitamin A-palmitat synth. ölige Lösung (ca. 1 Mio I.E/g)

Vit. A-palmitas synth. densatum oleosum (stabilisiert)

Solution of Vitamine A in oil

· **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH

Herderstr. 31

40721 Hilden

Tel.: 02103/4994-0

Fax: 02103/32360

e-mail: info@caelo.de

· **Emergency telephone:**

Giftinformationszentrum Mainz

Langenbeckstr. 1, 55131 Mainz

Tel.: 06131/19240

· **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

· **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

2 Hazards identification

· **GHS-Labeling Elements:**



· **Signal word:** Danger

· **H-Phrases:**

H360D May damage fertility or the unborn child

H413 May cause long lasting harmful effects to aquatic life

· **P-Phrases:**


P280 Wear protective gloves/protective clothing/eye protection/face protection

P201 Obtain special instructions before use

P273 Avoid release to the environment

Repr. 1B

Aquatic Chronic 4

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3 Composition / information on ingredients

- **CAS-Nr. Bezeichnung**
79-81-2 Retinolpalmitat (55,0 %)
- **EINECS-No.:** 201-228-5
- **REACH Reg. No.:** 01-2119480425-37-0001
- **INCI-Name:** Retinyl Palmitate

- CAS-Nr. Bezeichnung**
8002-03-7 Erdnussöl 43,5%
- **EINECS-No.:** 232-296-4
 - **REACH Reg. No.:** Von der Registrierungspflicht ausgenommen gem. Anhang 4 / 5 REACH-Verordnung.
 - **INCI-Name:** Arachis Hypogaea Oil

- CAS-No. Substanzbezeichnung**
1406-18-4 Tocopherol (Vitamin E) 1,5%
- **EINECS-No.:** 215-798-8
 - **REACH Reg. No.:** (pre-registered)
 - **INCI-Name:** Tocopherol

4 First aid measures


- **after inhalation:** Bring the person out of the contaminated area to fresh air, Seek medical help immediately. Show product-label or this MSDS.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** Drink water. Induce vomiting. Seek medical advice.

5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible but not flammable. In case of fire dangerous gases / vapours can be released: Smoke gases.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

6 Accidental release measures

- **Personal protective measures:** Avoid dust formation and contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Absorb with liquid-binding material: Sand, silica gel, acid binder, universal binder, saw dust. Disposal according to Chapter 13 of this MSDS. Clean up with water.

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7 Handling and storage

- **Handling:**

Before usage warm up the closed vessel in a water bath of +65°C to +70°C under casual agitation.

- **Advice on safe handling:** Behälter mit Vorsicht öffnen und handhaben.

- **Informations to fire or explosion protection:** No special measures required.

- **Storage:**

- **Requirements for storage areas and containers:**

Protect from light. Store at a cool place (+8°C to +15°C). Store at a good ventilated place. Accessible only for professional persons.

8 Exposure controls / personal protective equipment

Components with limit values that require monitoring at the workplace:

The product does not contain relevant quantities of substances with limit values that require monitoring at the workplace.

- **Personal protective equipment:**

- **General protective and hygiene measures:**

Keep away from food, beverages and animal food.

Take off contaminated clothes immediately.

Wash hands before breaks and after work.

- **Respiratory protection:** Not required.

- **Hand protection:** Protection gloves.

- **Eye protection:** Safety glasses.

9 Physical and chemical properties

- **Form:** liquid

- **Colour:** yellow

- **Odour:** odourless

- **Melting point / melting range:** not determined

- **Boiling point / boiling range:** not determined

- **Flash point:** 195 °C

- **Density:** (20 °C) 0,92 g/cm³

- **Solubility in / Miscibility with**

- **Water:** not soluble

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**


No decomposition during appropriate use.

- **Hazardous reactions:** Reactions with acids, alkalines, oxidants ,oxygen, Copper and ist alloys, iron and ist salts.

- **Hazardous decomposition products:**

At high temperatures irritant or harmful vapours are released.

- **Additional information:** Light sensitive.

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11 Toxicological information

• Acute toxicity:

The informations are related to vitamine A-acetate. The values for the palmitate are very similar.

LD/LD50-data relevant for hazard classification:

LD50 (mouse, oral) 2500 mg/kg

LD50 (oral, rat) 2740 mg/kg

• Primary irritant effect:

• **on skin:** Vitamine A: slightly irritant on skin (Rabbit), penetrates through skin (rat, pig).

• **on eyes:** Vitamine A: Not irritant (Rabbit).

• **Sensitization:** Vitamine A: No photo-allergene potential (guinea pig), not allergizing (guinea pig).

• **Sub-acute / chronic toxicity:** Vitamin A: Causes headache, irritation, fatigue, dizziness, vomiting, lack of appetite, dry lips, dry and itching skin, eczema with itching, scurf and disturbings of hair growth, alopecia.

Mutagenity: no experimental evidence og genotoxicity in vivo existing (different test systems).

Reproductive toxicity: Vitamine A: In high dosage teratogene and embryo toxic (different species).

12 Ecological information

• Information about elimination (persistence and degradability):

Vitamin A-acetat: Not readily biodegradable.

• Additional information:

The product is not soluble in water. It can be eliminated from water by mainly abiotic processes..

• Aquatic toxicity:

Fish toxicity: Vitamine A-acetat: LC50: 43 mg/l/96h

Daphnia toxicity: Vitamine A-acetat: EC50: 46 mg/l/48h

Algeal toxicity: Vitamine A-acetat: EC50: 7,5 mg/l/0-72h

Algae: Desmodesmus subspicatus ErC50 (72 h) 153 mg/l (DIN 38412)

• General advices:

The product is not readily soluble. It can eliminated baa biotic processes (separation). Prevent from entering sewage water or drainage ditch undiluted or unneutralized.

• **Water hazard class:** 2 (VwVwS): hazardous for water.

13 Disposal considerations

• Product:

• **Recommendation:** Disposal according to local regulations as pharmaceutical waste.

• Empty contaminated packaging:

• **Recommendation:** Disposal according to the local regulations.


14 Transport informations

• Land transport according to ADR:

Not classified as dangerous in the meaning of transport regulations.

15 Regulatory information

• **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and**

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Labelling of Chemicals):

The product is classified and labelled according to GHS-regulations.

• **Hazard symbols:** GHS08

• **Signal word:** Danger

• **H-Phrases:**

H360D May damage fertility or the unborn child

H413 May cause long lasting harmful effects to aquatic life

• **P-Phrases:**

P280 Wear protective gloves/protective clothing/eye protection/face protection

P201 Obtain special instructions before use

P273 Avoid release to the environment

• **National regulations (Germany):**

• **Water hazard class:** see chapter 12

• **Storage class TRGS 510:** 6.1C

• **VbF class:** -

16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

• **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.