

Page 1/8

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.11.2024 Version number 1.00 Revision: 28.11.2024

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

- · Product identifier
- · Trade name: Vitamin A-palmitat, synth. ölige Lösung (ca.1 Mio I.E/g)
- · Article number: 5722
- Registration number The substance is exempt from REACH-registration.
- · Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

CAELO

Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY

· Further information obtainable from:

E-mail: info@caelo.de

Tel.: +49210349940 (during regular opening hours)

Emergency telephone number:

Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn

Tel: +49 (0) 228-192400

### 2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Repr. 1A H360 May damage fertility or the unborn child.

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

- · Label elements
- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



- · Signal word Danger
- · Hazard statements

H360 May damage fertility or the unborn child.

H413 May cause long lasting harmful effects to aquatic life.

(Contd. on page 2)



Page 2/8

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Printing date 28.11.2024 Version number 1.00 Revision: 28.11.2024

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

(Contd. of page 1)

#### · Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.
P201 Obtain special instructions before use.
P273 Avoid release to the environment.

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

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Determination of endocrine-disrupting properties Not applicable.

### 3 Composition/information on ingredients

- Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.
- Dangerous components:

CAS: 79-81-2 retinyl palmitate

55.0%

EINECS: 201-228-5 Repr. 1A, H360; Aquatic Chronic 4, H413

Additional information: For the wording of the listed hazard phrases refer to section 16.

#### 4 First aid measures

- Description of first aid measures
- After inhalation:

Bring the person out of the contaminated area to fresh air.

Call a doctor immediately.

Show product-label or this MSDS.

- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### 5 Firefighting measures

- Extinguishing media
- · Suitable extinguishing agents:

All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

(Contd. on page 3)



Page 3/8

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(Contd. of page 2)

· Special hazards arising from the substance or mixture

Combustible but not oxidising. In case of fire dangerous vapours/gases can be generated: Smoke gases.

- · Advice for firefighters
- · Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- · Additional information

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Avoid formation of dust.

Avoid contact with the substance.

Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

- · Precautions for safe handling Open and handle receptacle with care.
- · Information about fire and explosion protection: Keep respiratory protective device available.
- · Handling

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

- · Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:

Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Store in nitrogen.

Protect from exposure to the light.

- Storage class: TRHS 510: 6.1 C Combustible acutely toxic or chronic substances
- · Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

- · Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information: The lists valid during the making were used as basis.

(Contd. on page 4)



Page 4/8

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

(Contd. of page 3)

- · Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

- · Respiratory protection: Dust protection mask.
- Hand protection Protective gloves
- Material of gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eye/face protection Tightly sealed goggles
- · Body protection: Protective work clothing

### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

Physical state
Colour:
Odour:
Odourless
Odour threshold:
Melting point/freezing point:

Fluid
Yellow
Odourless
Not determined.
Undetermined.

Boiling point or initial boiling point and boiling

range Undetermined. Flammability Not applicable.

Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: 195 °C

Decomposition temperature: Not determined. pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

· Solubility

water: Fully miscible.
 Partition coefficient n-octanol/water (log value)
 Vapour pressure: Fully miscible.
 Not determined.
 Not determined.

Density and/or relative density

Density at 20 °C: 0.92 g/cm<sup>3</sup>

(Contd. on page 5)



Page 5/8

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(Contd. of page 4)

· Relative density Not determined. · Vapour density Not determined.

· Other information

· Appearance:

Fluid · Form:

· Important information on protection of health and environment, and on safety.

· Ignition temperature: Product is not selfigniting.

Product does not present an explosion hazard. · Explosive properties:

Solvent content:

· VOC (EC) 0.00 %

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard

classes

· Explosives Void Flammable gases Void · Aerosols Void Void · Oxidising gases · Gases under pressure Void Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void

· Substances and mixtures, which emit flammable gases in contact with water

Void · Oxidising liquids Void Void · Oxidising solids · Organic peroxides Void · Corrosive to metals Void · Desensitised explosives Void

### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- Incompatible materials:

Alkalis

Oxidizing agent

Acids

Metals

(Contd. on page 6)



Page 6/8

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(Contd. of page 5)

· Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

Oral LD50 2,500 mg/kg (mouse)

2,470 mg/kg (rat)

CAS: 79-81-2 retinyl palmitate

Oral LD50 7,910 mg/kg (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity May damage fertility or the unborn child.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- Information on other hazards
- · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

## 12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

- · Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

(Contd. on page 7)



Page 7/8

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(Contd. of page 6)

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- · Recommendation: Disposal must be made according to local regulations.

### \*14 Transport information

· **UN number or ID number**Not subject to transport regulations.

· ADR, IMDG, IATA not regulated

UN proper shipping name

· ADR not regulated not regulated not regulated

· Transport hazard class(es)

· ADR, ADN, IMDG, IATA

**Class** not regulated

· Packing group

ADR, IMDG, IATA
 Environmental hazards:
 Special precautions for user
 not regulated
 Not applicable.
 Not applicable.

· Maritime transport in bulk according to IMO

instruments Not applicable.
UN "Model Regulation": not regulated

#### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- National regulations:
- · Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)

TRHS 510: 6.1 C Combustible acutely toxic or chronic substances

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

(Contd. on page 8)



Page 8/8

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(Contd. of page 7)

- · Reasons for alterations This version replaces all old versions.
- Relevant phrases

H360 May damage fertility or the unborn child.

H413 May cause long lasting harmful effects to aquatic life.

- Date of previous version: 28.11.2024
- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Repr. 1A: Reproductive toxicity - Category 1A Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

\* Data compared to the previous version altered.

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