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

- **Informations to product No. 7698**
- **Product name:**

all-rac-a-Tocopherolacetat
int-rac-a-Tocopherylis acetat, Vitamin E-acetat

- **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

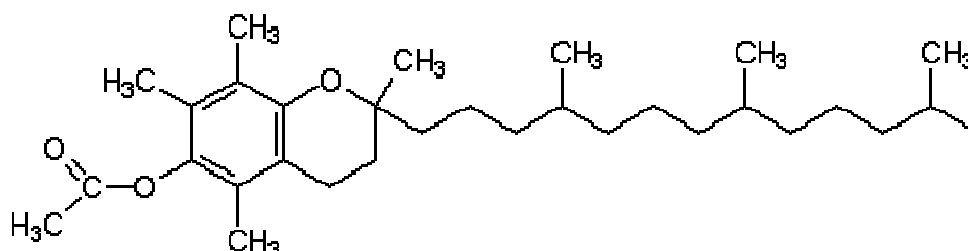
- **Hazards identification:** The substance is not classified as dangerous according to European Union legislation.


3 Composition / information on ingredients

CAS-No. Substance name

7695-91-2 DL-alpha-Tocopherol acetate

- **EINECS-No.:** 231-710-0
- **REACH Reg. No.:** 01-2119457641-38-0000
- **INCI-Name:** Tocopheryl Acetate
- **Chemical characterization:**



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4 First aid measures

- **after inhalation:** (Aerosol) Fresh air
- **after skin contact:** Wash away with water and soap
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** (big quantities): If feeling unwell 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. Dust explosion hazard. In case of fire dangerous vapours/gases can be generated: 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:** No special measures required.
- **Additional information:** Prevent from entering into drains, prevent from contaminating surface water or the ground water system.
- **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.

7 Handling and storage

- **Handling:** Fill up under nitrogen.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C). Protect from light.
- **Advices on common storage:** Not required.
- **Additional informations to storage conditions:** none

8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **General protective and hygiene measures:** The usual precaution measures during handling of chemicals are to observe.
- **Respiratory protection:** required if vapours/aerosols are generated..
- **Hand protection:** Protection gloves of rubber or latex.
- **Eye protection:** Safety glasses

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9 Physical and chemical properties


- **Form:** liquid
- **Colour:** colourless - amber
- **Odour:** nearly odourless
- **Melting point / melting range:** -27,5 °C (solidification point)
- **Boiling point / boiling range:** > 300 °C
- **Flash point:** 257 °C
- **Solubility in / Miscibility with**
- **Water:** Not readily soluble
- **Flammability:** Not flammable
- **Ignition temperature:** ca. 303 °C (DIN 51794)
- **Spontaneous ignition:** (Method: Guideline 84/449/EWG, A.15) Temperature: 382 °C
- **Explosion hazard:** not explosive
- **Vapour pressure:** ca. 1,4 hPa (ca. 240 °C) ca. 4,0 hPa (ca. 270 °C)
- **Density:** ca. 0,95 - 0,96 g/cm³ (ca. 20 °C) ca. 0,93 g/cm³ (ca. 60 °C)
- **Viscosity, dynamic:** ca. 700 mPas (ca. 40 °C)

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Thermal decomposition: 430 °C (DTA).
No decomposition during appropriate use.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none
- **Additional information:** Light sensitive

11 Toxicological information

- **Acute toxicity:** After singular oral exposition nearly not toxic. Low toxicity after skin contact. LD50 Rat (oral): > 10.000 mg/kg (BASF-Test)
LD50 Rat (dermal): > 3.000 mg/kg
- Irritant effect**
Not irritant on skin. Not irritant in eyes.
Skin irritation rabbit: Not irritant. (OECD-Guideline 404)
Eye damage rabbit: Not irritant. (OECD-Guideline 405)
- Respiratory way / skin sensitization**
Non skin sensitizing in animal experiments.
Maximation test guinea pig (GPMT): not sensitizing
- Mutagenity**
The majority of the results of the numerous existing tests did not reveal any mutagene effect.
- Reproductive toxicity**
In animal experiments no evidence for reproductive toxicity.
- Teratogenity**
In animal experiments no evidence for teratogenity. The tests did not complie with actual requirements.

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12 Ecological information

Ecotoxicity

Evaluation aquatic toxicity: Acute harmful effects for water organisms not likely. No toxic effect in the range of solubility in water. Low concentrations in water have no harmful effect on activated sludge in sewage plants.

Fish toxicity: LC50 (96 h) > 10.000 mg/l, *Leuciscus idus* (DIN 38412 part 15, static)

The test concentration exceeded the maximal solubility in water. The information about toxic effects is related to the nominal concentration.

Aquatic invertebrates: EC50 (48 h) > 500 mg/l, *Daphnia magna* (Guideline 79/831/EWG, static)

The product is not readily soluble in the test medium. A mixture, prepared with solubilizers, was tested. The information about toxic effects is related to the nominal concentration.

Microorganisms /effect on activated sludge : EC10 (30 min) > 10.000 mg/l, *Pseudomonas putida* (DIN 38412 Part 27 (draft), aquatic) The information about toxic effects is related to the nominal concentration.

EC20 (30 min) > 927 mg/l, Activated sludge (DIN EN ISO 8192, aquatic)

· **Information about elimination (persistence and degradability):**

Evaluation persistence and degradability (H₂O): moderately/partially biodegradable. Not readily biodegradable. (OECD-criteria). The product is not readily soluble in water and can be separated mechanically.

Elimination: 30 - 40 % BSB of ThSB (28 d) (OECD 301F; ISO 9408; 92/69/EWG, C.4-D) (aerob, Activated sludge)

· **log Pow:** 12,26 (25 °C) (calculated)

· **Mobility and bioaccumulation potential:** Due to the distribution coefficient n-octanol/water an accumulation in organisms is possible.

· **Water hazard class:** 1 (VwVwS): slightly 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 Labelling of Chemicals):**

The product does not need to be labelled according to EC directives or respective national laws .

- **National regulations (Germany):**
- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 10
- **VbF class:** -

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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.