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

· **Informations to product No. 9560**

· **Product name:**

Tretinoin, cryst., API
Tretinoinum, Vitamin A-Säure

· **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 the unborn child

H315 Causes skin irritation

H410 Very toxic to aquatic life with long lasting effects

· **P-Phrases:**

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

P201 Obtain special instructions before use


P273 Avoid release to the environment

Skin Irrit. 2

Repr. 1B

Aquatic Acute 1

Aquatic Chronic 1

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3 Composition / information on ingredients

CAS-No. Substance name

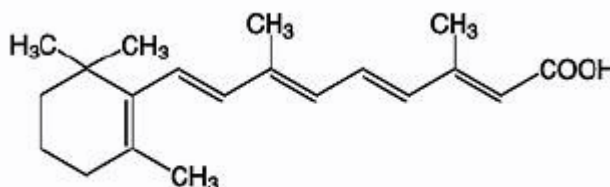
302-79-4 Vitamin A acid

• **EINECS-No.:** 206-129-0

• **REACH Reg. No.:** (pre-registered)

• **INCI-Name:** Vitamin A Acid

• **Chemical characterization:**



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, seek medical advice immediately, even if no immediate symptoms are observed.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open, seek medical advice immediately.
- **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. 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:** Avoid dust formation and contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage

- **Handling:**
- **Advice on safe handling:** Avoid dust formation.

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• **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. Unter Schutzgas: Stickstoff. Accessible only for professional persons.

• **Advices on common storage:**

TRGS 514 "Storage of toxic and very toxic substances ..."

8 Exposure controls / personal protective equipment

• **Personal protective equipment:**

- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of rubber.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties

- **Form:** solid
- **Colour:** yellow
- **Odour:** odourless
- **Melting point / melting range:** 178 °C
- **Flash point:** not determined
- **Ignition temperature:** 265 °C
- **Decomposition temperature:** > 60 °C
- **Density:** not determined
- **Solubility in / Miscibility with**
- **Water:** not soluble

10 Stability and reactivity

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

Thermal decomposition: > 60 °C.

- **Materials to avoid:** Oxygen.
- **Hazardous reactions:** Danger of dust explosion.

11 Toxicological information

• **Acute toxicity:**

LD/LD50-data relevant for hazard classification:

302-79-4 Vitamin-A acid


Oral: LD50: 8000 mg/kg (rat)

• **Primary irritant effect:**

- **on skin:** Irritant.

• **Additional toxicological informations:**

According to the existing informations a risk of harmful effects on the unborn child has to be considered as likely. Pregnant women should not be exposed to the product.

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12 Ecological information

- **Information about elimination (persistence and degradability):** Easily biodegradable.
- **Ecotoxicological effects:** Toxic for water organisms.
- **Water hazard class:** 2 (self classification): hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste or organic laboratory chemicals.
- **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 is classified and labelled according to GHS-regulations.
- **Hazard symbols:** GHS08, GHS07, GHS09
- **Signal word:** Danger
- **H-Phrases:**
H360D May damage the unborn child
H315 Causes skin irritation
H410 Very toxic to aquatic life with long lasting effects
- **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

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.