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

· **Informations to product No. 6050**

· **Product name:**

### **Epinephrinhydrogentartrat, API** Adrenalin tartras, L-Adrenalinbitartrat

· **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:**

H300 Fatal if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

· **P-Phrases:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P264 Wash thoroughly after handling

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


P301 IF SWALLOWED:

P310 Immediately call a POISON CENTER or doctor/physician

P305 IF IN EYES

P351 Rinse continuously with water for several minutes

**Acute Tox. 2**

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**Skin Irrit. 2**  
**Eye Irrit. 2**  
**STOT SE 3**

### 3 Composition / information on ingredients

**CAS-No. Substance name**

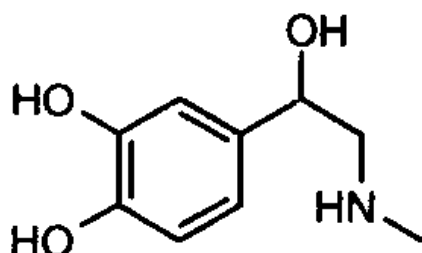
51-42-3 Adrenalin bitartrate

• **EINECS-No.:** 200-097-1

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

• **INCI-Name:** -

• **Chemical characterization:**




\* 1 Tartaric acid

### 4 First aid measures

- **General advices:** Take off contaminated clothes immediately. Remove respiratory protection not before removal of contaminated clothings. Give oxygen if irregular breathing or apnoea is observed.
- **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:** Wash away with water and soap immediately and rinse off. 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 , seek medical advice, even if no immediate symptoms are observed.
- **after swallowing:** Do not induce vomiting, get medical help immediately.

### 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.

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## 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:** Ensure good ventilation/exhaustion at the workplace. Handling corresponding to laboratory safety guidelines. Handle and open containers cautiously.
- **Informations to fire or explosion protection:** No special measures required.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a cool and dry place. Store only in original containers. Accessible only for professional persons.

## 8 Exposure controls / personal protective equipment


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

## 9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** 150 °C
- **Flash point:** not applicable
- **Decomposition temperature:** 155 °C
- **Explosion hazard:** Dust explosion hazard class III
- **Density:** not determined
- **Bulk density:** ca. 600 kg/m<sup>3</sup>
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 500 g/l
- **pH-range:** (20 g/l, 20 °C) ca. 4

## 10 Stability and reactivity

- **Hazardous decomposition products:**  
At high temperatures irritant or harmful vapours are released.

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## 11 Toxicological information

- **Acute toxicity:**  
**LD/LD50-data relevant for hazard classification:**  
LD50 oral, rat: 8,3 mg/kg  
LD50 oral, mouse: 4 mg/kg
- **Primary irritant effect:**  
On eyes: irritant.  
On skin: irritant.  
On respiratory organs: irritant.
- **Additional toxicological informations:** Danger of skin resorption.

## 12 Ecological information

- **Log pOW:** Not determined ( < 0)
- **PBT / vPvB:** Not applicable.
- **Water hazard class:** 3 (VwVwS): very hazardous for water.
- **General advices:** Prevent from leaking into ground water, environment waters or drainage, even not in small quantities. Danger for drinking water even if smallest quantities are penetrating into soil.

## 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:**
- **Proper shipping name:** Toxic solids, organic, n.o.s., Adrenalinbitartrat
- **Class:** 6.1
- **UN-number:** 2811
- **Packing group:** II
- **Classification code:** T2
- **Limited quantities (Table 3.4.6. ADR):** 1 kg
- **Hazard classification number:** 60
- **Special provisions (Chapter 3.3 ADR):** -
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-A
- **Properties:** -

## 15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

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

• **Hazard symbols:** GHS06

• **Signal word:** Danger

• **H-Phrases:**

H300 Fatal if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

• **P-Phrases:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

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P351 Rinse continuously with water for several minutes

• **National regulations (Germany):**

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

• **Storage class TRGS 510:** 6.1A

## 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.