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## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.01.2023

Version number 1.00

Revision: 06.01.2023

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

- · Product identifier
- · Trade name: Adrenaline tartrate, API
- · Article number: 6050
- · CAS Number:
- 51-42-3
- · EC number:
- 200-097-1
- **Registration number** The substance is exempt from UK REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture
- Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.
- · 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

Acute Tox. 1 H300 Fatal if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

#### · Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the GB CLP regulation.

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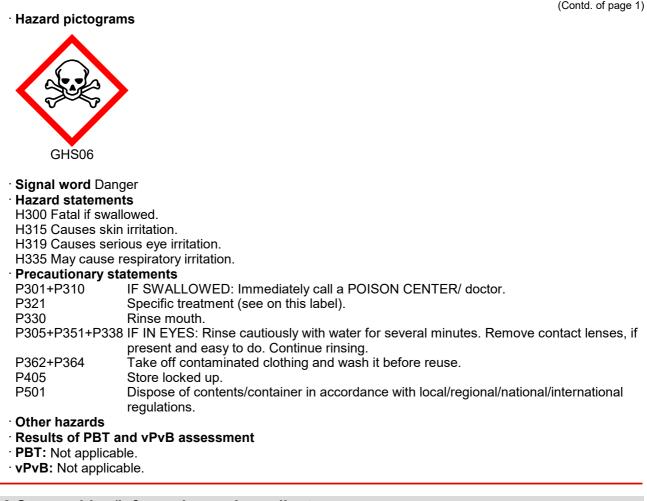
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## 3 Composition/information on ingredients

#### · Chemical characterisation: Substances

- · CAS No. Description
- 51-42-3 epinephrine hydrogen tartrate
- Identification number(s)
- · EC number: 200-097-1

# 4 First aid measures

- **Description of first aid measures**
- · General information: Immediately remove any clothing soiled by the product.
- 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.

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- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- · Information for 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.

- · 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.
   Methods and material for containment and cleaning up: Take up dry. Clean up with water.
- Dispose contaminated material as waste according to item 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

- Handling:
   Precautions for safe handling
   Ensure good ventilation/exhaustion at the workplace.
   Provide eye rinsing kit.
   Open and handle receptacle with care.
   Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.

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#### Trade name: Adrenaline tartrate, API

Tightly closed.

· Information about storage in one common storage facility: Not required.

- Further information about storage conditions: No further information
- Storage class: TRHS 510: 6.1 A Combustible, acutely toxic substances
- · Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

- · Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- · Exposure controls
- Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- Respiratory protection: Dust protection mask.
- Protection of hands: 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 protection: Safety glasses
- · Body protection: Protective work clothing

# 9 Physical and chemical properties

o Physical and chemical properties				
Information on basic physical and chemical properties General Information				
· Appearance:				
Form:	Solid			
Colour:	White			
· Odour:	Odourless			
· Odour threshold:	Not determined.			
pH-value (20 g/l) at 20 °C:	4			
<ul> <li>Change in condition</li> <li>Melting point/freezing point:</li> <li>Initial boiling point and boiling range:</li> </ul>	150 °C Undetermined.			
· Flash point:	Not applicable.			



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· Flammability (solid, gas):	Product is not flammable.	
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.	
· Auto-ignition temperature:	Not determined.	
· Explosive properties:	Product does not present an explosion hazard.	
<ul> <li>Explosion limits: Lower: Upper:</li> </ul>	Not determined. Not determined.	
· Vapour pressure:	Not applicable.	
· Density:	Not determined.	
<ul> <li>Bulk density:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	600 kg/m³ Not determined. Not applicable. Not applicable.	
<ul> <li>Solubility in / Miscibility with water:</li> </ul>	Not determined.	
· Partition coefficient: n-octanol/water:	Not determined.	
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> </ul>	Not applicable. Not applicable.	
· Other information	No further relevant information available.	

## 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: No further relevant information available.
- · Hazardous decomposition products: Irritant gases/vapours

## **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity
- Fatal if swallowed.
- · LD/LC50 values relevant for classification:

Oral LD50 8.3 mg/kg (mouse)

4 mg/kg (rat)

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- · Primary irritant effect:
- Skin corrosion/irritation
- Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- $\cdot$  Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause respiratory irritation.
- · 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.

## **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

## 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	Trans	port	inforn	nation
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· UN-Number

· ADR, IMDG, IATA

UN2811

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#### Trade name: Adrenaline tartrate, API

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· UN proper shipping name	
ADR	not regulated
·IMDG	TOXIC SOLID, ORGANIC, N.O.S. (epinephrine hydrogen tartrate)
	Toxic solid, organic, n.o.s. (epinephrine hydrogen tartrate)
<ul> <li>Transport hazard class(es)</li> </ul>	
· ADR, IMDG, IATA	
Class	6.1 Toxic substances.
· Label	6.1
· Packing group	
ADR, IMDG, IATA	
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Toxic substances.
Hazard identification number (Kemler code):	•
· EMS Number:	F-A.S-A
Transport in bulk according to Annex II of	, –
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
ADR	
Limited quantities (LQ)	0
· Transport category	1
· Tunnel restriction code	C/E
·IMDG	
<ul> <li>Limited quantities (LQ)</li> </ul>	0

#### 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · REGULATION (EC) No 1907/2006 ANNEX XVII Not listed

· National regulations:

Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)

TRHS 510: 6.1 A Combustible, acutely toxic 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.

- **Reasons for alterations** This version replaces all old versions.
- 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

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



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GB -

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(Contd. of page 7) MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark) LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 1: Acute toxicity – Category 1 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 \* \* Data compared to the previous version altered.