

Trade name: Adrenalini tartras

Substance number: 750500

Version: 2 / CH

Date revised: 04.12.2019

Replaces Version: 1 / CH

Print date: 04.12.19

## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

Adrenalini tartras

Item No. 75050007

### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

#### **Use of the substance/preparation**

Active pharmaceutical substance

### **1.3. Details of the supplier of the safety data sheet**

#### **Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

### **1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

## **SECTION 2: Hazards identification \*\*\***

### **2.1. Classification of the substance or mixture**

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 1 H300

Acute Tox. 2 H310

Acute Tox. 1 H330

Aquatic Chronic 3 H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

##### **Hazard pictograms**



##### **Signal word**

Danger

##### **Hazard statements \*\*\***

H412 Harmful to aquatic life with long lasting effects.

H300+H310+H330 Fatal if swallowed, in contact with skin or if inhaled.

##### **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

Trade name: Adrenalini tartras

Substance number: 750500

Version: 2 / CH

Date revised: 04.12.2019

Replaces Version: 1 / CH

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P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P284 [In case of inadequate ventilation] wear respiratory protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains epinephrine hydrogen tartrate

**Supplemental information****Other information**

Not for supply to the general public in Switzerland

**SECTION 3: Composition/information on ingredients****Hazardous ingredients****epinephrine hydrogen tartrate**

CAS No. 51-42-3

EINECS no. 200-097-1

Concentration &gt;= 80 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 1 H300

Acute Tox. 2 H310

Acute Tox. 1 H330

Aquatic Chronic 3 H412

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely. Irregular breathing/no breathing: artificial respiration. Remove contaminated clothing immediately and dispose of safely.

**After inhalation**

Ensure supply of fresh air. Summon a doctor immediately. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After skin contact**

Wash off immediately with soap and water and rinse well.

**After eye contact**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical advice immediately.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

**Non suitable extinguishing media**

Trade name: Adrenalini tartras

Substance number: 750500

Version: 2 / CH

Date revised: 04.12.2019

Replaces Version: 1 / CH

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Full water jet

**5.2. Special hazards arising from the substance or mixture**

In the event of fire the following can be released: Nitrous gases (NO<sub>x</sub>); Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. In case of combustion use a suitable breathing apparatus. Do not inhale explosion and/or combustion gases.

**Other information**

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep away unprotected persons.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**6.3. Methods and material for containment and cleaning up**

Take up mechanically and collect in suitable container for disposal. When picked up, treat material as prescribed under Section 13 "Disposal". Provide adequate ventilation. Avoid raising dust.

**6.4. Reference to other sections**

Information regarding personal protective measures, see Section 8.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide suitable exhaust ventilation at processing machines. Handle and open container with care. Do not inhale dust.

**Advice on protection against fire and explosion**

Take action to prevent static discharges. Keep away from sources of ignition - No smoking. Dust can form an explosive mixture with air. Hold breathing apparatus.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Provide solvent-resistant and impermeable floor.

**Storage classes**

Storage class according to TRGS 510	6.1B	Non-combustible substances of acute toxicity, categories 1 and 2 / very toxic hazardous substances Toxic substances
Storage category (Switzerland)	6.1	

**Further information on storage conditions**

Keep container tightly closed, cool and dry. Protect from light. Keep container tightly closed.

**SECTION 8: Exposure controls/personal protection****8.2. Exposure controls****Exposure controls**

Trade name: Adrenalini tartras

Substance number: 750500

Version: 2 / CH

Date revised: 04.12.2019

Replaces Version: 1 / CH

Print date: 04.12.19

See Section 7. No measures exceeding the ones mentioned necessary.

### General protective and hygiene measures

Do not inhale dust/fumes/mist. Keep away from food-stuffs, beverages and feed-stocks. Take off immediately all contaminated clothing. Wash hands and face before breaks and after work. Avoid contact with skin and eyes.

### Respiratory protection

Self-contained breathing apparatus. Particle filter half mask, filter P3 - Norm NF EN 149

### Hand protection

Protective gloves

Appropriate Material

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material

nitrile rubber - NBR

Material thickness

>= 0.43 mm

Breakthrough time

480 min

### Eye protection

Tightly fitting safety glasses

### Body protection

Clothing as usual in the chemical industry.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Form</b>	Powder		
<b>Colour</b>	white		
<b>Odour</b>	odourless		
<b>pH value</b>			
Value	4.0		
Concentration/H <sub>2</sub> O	20	g/l	
Temperature	20	°C	
<b>Melting point</b>			
Value	appr. 143		°C
<b>Initial boiling point and boiling range</b>			
Remarks	not determined		
<b>Flash point</b>			
Value			°C
Remarks	Not applicable		
<b>Flammability (solid, gas)</b>			
Remarks	Not ignitable		
<b>Vapour pressure</b>			
Remarks	Not applicable		
<b>Density</b>			
Remarks	not determined		
<b>Solubility in water</b>			
Value	500		g/l
Temperature	20	°C	

### 9.2. Other information

#### Bulk density

Trade name: Adrenalini tartras

Substance number: 750500

Version: 2 / CH

Date revised: 04.12.2019

Replaces Version: 1 / CH

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Value	600	kg/m <sup>3</sup>
Temperature	20 °C	

## **SECTION 10: Stability and reactivity**

### **10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat. Protect from warmth. Protect from light.

### **10.5. Incompatible materials**

No dangerous reactions known.

### **10.6. Hazardous decomposition products**

No hazardous decomposition products known when handled according to prescribed instructions.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity**

ATE	4	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

#### **Acute oral toxicity (Components)**

##### **epinephrine hydrogen tartrate**

Species	rat	
LD50	4	mg/kg

#### **Acute dermal toxicity**

ATE	62	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

#### **Acute dermal toxicity (Components)**

##### **epinephrine hydrogen tartrate**

Species	rat	
LD50	62	mg/kg
Source	Epinephrine	

#### **Acute inhalational toxicity**

ATE	0.05	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	0.005	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

#### **Acute inhalative toxicity (Components)**

##### **epinephrine hydrogen tartrate**

Species	rat	
LD50	0.00125	mg/l
Source	Epinephrine hydrochloride	

#### **Skin corrosion/irritation**

Remarks No effect of irritation known.

#### **Serious eye damage/irritation**

Remarks No effect of irritation known

#### **Sensitization**

Remarks No sensitization effect known.

#### **Reproduction toxicity (Components)**

Trade name: Adrenalini tartras

Substance number: 750500

Version: 2 / CH

Date revised: 04.12.2019

Replaces Version: 1 / CH

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**epinephrine hydrogen tartrate**

evaluation

On grounds of results of experiments on test animals, a probable risk of damage to the embryo must be assumed.

**Experience in practice**

Danger of serious damage to health by prolonged exposure. May be harmful by inhalation, ingestion, skin adsorption.

**SECTION 12: Ecological information****12.1. Toxicity****Daphnia toxicity (Components)****epinephrine hydrogen tartrate**

Species	Daphnia		
EC50	31.7		mg/l
Duration of exposure	48	h	
Source	Epinephrine		

**12.2. Persistence and degradability****Biodegradability**

Remarks Not readily biodegradable.

**12.6. Other adverse effects****General information / ecology**

Product is highly hazardous to water. Do not allow it to reach ground water, water bodies or sewage system. Hazard for drinking water supplies.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code		No not dispose with rubbish.
EWC waste code		Should not be released into the sanitary sewer system.
EWC waste code	07 05 13*	solid wastes containing dangerous substances

**Disposal recommendations for packaging**Disposal in compliance with local and national regulations.  
Packaging that cannot be cleaned should be disposed off as product waste.**SECTION 14: Transport information \*\*\***

Trade name: Adrenalini tartras




Substance number: 750500

Version: 2 / CH

Date revised: 04.12.2019

Replaces Version: 1 / CH

Print date: 04.12.19

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
Tunnel restriction code	C/E		
14.1. UN number	2811	2811	2811
14.2. UN proper shipping name	TOXIC SOLID, ORGANIC, N.O.S. (epinephrine hydrogen tartrate)	TOXIC SOLID, ORGANIC, N.O.S. (epinephrine hydrogen tartrate)	TOXIC SOLID, ORGANIC, N.O.S. (epinephrine hydrogen tartrate)
14.3. Transport hazard class(es)	6.1	6.1	6.1
Label			
14.4. Packing group	I	I	I
Limited Quantity	0		
Transport category	1		

## SECTION 15: Regulatory information

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

#### Water Hazard Class (Germany)

Water Hazard Class (Germany)      WGK 3

Remarks      Derivation of WGK according to Annex 1 No. 5.2 AwSV

## SECTION 16: Other information

#### Hazard statements listed in Chapter 3

H300      Fatal if swallowed.  
 H310      Fatal in contact with skin.  
 H330      Fatal if inhaled.  
 H412      Harmful to aquatic life with long lasting effects.

#### CLP categories listed in Chapter 3

Acute Tox. 1      Acute toxicity, Category 1  
 Acute Tox. 2      Acute toxicity, Category 2  
 Aquatic Chronic 3      Hazardous to the aquatic environment, chronic, Category 3

#### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
 This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.