

Trade name: Adrenalini tartras

Substance number: 060500

Version: 3 / CH

Date revised: 04.12.2019

Replaces Version: 2 / 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. 06050000

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: 060500

Version: 3 / CH

Date revised: 04.12.2019

Replaces Version: 2 / 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 >= 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: 060500

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Date revised: 04.12.2019

Replaces Version: 2 / 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_x); Carbon monoxide (CO); Carbon dioxide (CO₂)

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: 060500

Version: 3 / CH

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Replaces Version: 2 / CH

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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

Form

Powder

Colour

white

Odour

odourless

pH value

Value

4

Concentration/H₂O

20

g/l

Temperature

20

°C

Melting point

Value

appr. 143

°C

Initial boiling point and boiling range

Remarks

not determined

Flash point

Value

°C

Remarks

Not applicable

Flammability (solid, gas)

Not ignitable

Vapour pressure

Remarks

Not applicable

Density

Remarks

not determined

Solubility in water

Value

500

g/l

Temperature

20

°C

9.2. Other information

Bulk density

Trade name: Adrenalini tartras

Substance number: 060500

Version: 3 / CH

Date revised: 04.12.2019

Replaces Version: 2 / CH

Print date: 04.12.19

Value	600	kg/m ³
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 sensitisation effect known.

Reproduction toxicity (Components)

Trade name: Adrenalini tartras

Substance number: 060500

Version: 3 / CH

Date revised: 04.12.2019

Replaces Version: 2 / 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 packagingDisposal 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: 060500

Version: 3 / CH

Date revised: 04.12.2019

Replaces Version: 2 / 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.