

SAFETY DATA SHEET

Product name	Product reference
Epinephrine	AG002K

R

Epinephrine



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Safety Data Sheet

acc. to OSHA HCS

Printing date 05/24/2024

Version Number 9

Reviewed on 05/24/2024

1 Identification

- · Product identifier
- · Trade name: Epinephrine
- · Article number: AG002K
- · Application of the substance / the mixture In vitro medical device for professional use
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: HYPHEN BioMed 155 rue d'Eragny F-95000 NEUVILLE-SUR-OISE FRANCE
- Information department: info@hyphen-biomed.com +33/1/34 40 65 10
- Emergency telephone number: INFOTRAC emergency phone number (for USA, Puerto Rico and Canada only): 1-800-535-5053 (24-hours)

2 Hazard(s) identification

· Classification of the substance or mixture

GHS06 Skull and crossbones

Acute Toxicity - Oral 2 H300 Fatal if swallowed.

- · Label elements
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



- · Signal word Danger
- Hazard-determining components of labeling: epinephrine hydrogen tartrate
- · Hazard statements
- Fatal if swallowed.
- · Precautionary statements
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- If swallowed: Immediately call a poison center/doctor.
- Rinse mouth. Dispose of contents/container in accordance with local/regional/national/international regulations.
- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.

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· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

51-42-3 epinephrine hydrogen tartrate

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<5%

4 First-aid measures

- · Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

- Seek immediate medical advice.
- · After inhalation:

In case of unconsciousness place patient stably in side position for transportation. Supply fresh air and to be sure call for a doctor.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- · 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 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- \cdot Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to section 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.

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· Protective Action Criteria for Chemicals

· PAC-1:		
77-86-1	trometamol	18 mg/m ³
· PAC-2:		
77-86-1	trometamol	190 mg/m³
PAC-3:		
77-86-1	trometamol	1,200 mg/m³

7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Thorough dedusting.

Open and handle receptacle with care.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

None.

- 2 8°C
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation were used as basis.
- 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.
- Do not eat or drink while working.
- **Breathing equipment:** Suitable respiratory protective device recommended. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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[·] Additional information about design of technical systems: No further data; see section 7.



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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

• Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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: Face protection

9 Physical and chemical properties		
· Information on basic physical and	chemical properties	
· General Information		
· Appearance:		
Form: Color:	Like powder	
· Odor:	White Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
· Decomposition temperature:	Not determined.	
· Ignition temperature:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not determined.	
· Density:	Not determined.	
Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not applicable.	



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· Solubility in / Miscibility with	1		
Water:	Not determined.		
· Partition coefficient (n-octan	ol/water): Not determined.		
· Viscosity:			
Dynamic:	Not determined.		
Kinematic:	Not determined.		
Solvent content:			
VOC content:	0.00 %		
· Other information	No further relevant information available.	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: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 23.4 mg/kg

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Very toxic

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

• NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior 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 2 (Self-assessment): hazardous for water

- Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.
- Avoid transfer into the environment.
- · 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 of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation:

Disposal must be made according to official regulations.

- Dispose of packaging according to regulations on the disposal of packagings.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number		
· DOT, IMDG, IATA	not regulated	
· UN proper shipping name		
· IMDG, IATA	not regulated	
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA		
Class	not regulated	
· Packing group		
· DOT, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	



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 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

15 Regulatory information

No further relevant information available. · Sara	
• Section 355 (extremely hazardous substance	
None of the ingredients is listed.	
• Section 313 (Specific toxic chemical listings)	•
None of the ingredients is listed.	·
• TSCA (Toxic Substances Control Act):	
7647-14-5 sodium chloride	ACTIVE
77-86-1 trometamol	ACTIV
50-81-7 ascorbic acid	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxi	city for females:
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxi	city for males:
None of the ingredients is listed.	
· Chemicals known to cause developmental to	xicity
None of the ingredients is listed.	
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
· Carcinogenic categories	
• EPA (Environmental Protection Agency) None of the ingredients is listed.	
• TLV (Threshold Limit Value) None of the ingredients is listed.	
NODE OF THE INDREAMENTS IS IISTED	
	al Safety and Health)
NIOSH-Ca (National Institute for Occupational None of the ingredients is listed.	

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· Hazard pictograms



- · Signal word Danger
- Hazard-determining components of labeling: epinephrine hydrogen tartrate
- Hazard statements Fatal if swallowed.
- Precautionary statements
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 If swallowed: Immediately call a poison center/doctor.
 Rinse mouth.
- Dispose of contents/container in accordance with local/regional/national/international regulations. **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Contact:
- Date of preparation / last revision 05/24/2024 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Toxicity - Oral 2: Acute toxicity - Category 2 * * Data compared to the previous version altered.

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