

## Safety Data Sheet

CHOventure with Hypoxanthine, with Thymidine, with Pluronic™, w/o Insulin, w/o L-Glutamine

According to Regulation (EC) No. 1907/2006 (REACH)

Date of Compilation 15.01.2024

Revision Date 29.01.2024

Version 001/01.2024

Replaces Version of 15.01.2024 (Version 000/01.2024)

### Section 1 Identification of the substance/ Mixture and of the Company/ Undertaking

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#### Product identifiers

Product name: CHOventure  
with Hypoxanthine, with Thymidine, with Pluronic™, w/o Insulin, w/o L-Glutamine  
Catalogue No.: VEN-500ML

REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.

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

Identified uses: For Research Use or Further Manufacturing only.

#### Details of the Supplier of the Safety Data Sheet

Company: Capricorn Scientific GmbH  
Auf der Lette 13 A  
35085 Ebsdorfergrund  
Germany  
Phone: +49 6424 94464 0  
E-Mail: [info@capricorn-scientific.com](mailto:info@capricorn-scientific.com)  
Website: [www.capricorn-scientific.com](http://www.capricorn-scientific.com)

#### Emergency Telephone Number

Emergency Phone: +49 6424 94464 0 (on workdays, Mon. to Fri. from 8:00 – 16:00 h CET/CEST)

### Section 2 Hazards Identification

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#### Classification of the substance or mixture

Eye irritation (Category 2) H319  
Skin sensitization (Category 1) H317

#### Label elements

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Pictogram



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Signal Word	Warning
Hazard statements:	
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
Precautionary statements:	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

### Reduced Labeling (≤ 125 ml)

Pictogram



Signal Word Warning

Hazard statement(s)

H317 May cause an allergic skin reaction.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
 P272 Contaminated work clothing should not be allowed out of the workplace.

P302 + P352 IF ON SKIN: Wash with plenty of water.

Supplemental Hazard Statements none

### Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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### Section 3 Composition/Information on Ingredients

#### Substances

Chemical description: Mixture. Product does not burn.

#### Mixtures

##### Components

Chemical Name and Classification	Identification	Chemical name/Classification	Concentration (w/w)
Pyruvic acid sodium salt Eye Irritation (Cat 2) H319 Skin Sensitization (Cat 1B) H317	CAS: 113-24-6 EC: 204-024-4 Index: REACH:	Pyruvic acid sodium salt	≥ 1 – <10 %
		Eye Irrit. 2: H319  Skin Sens. 1: H317 Warning	
L-Tyrosine disodium salt dihydrate Eye Damage (Cat 1) H318	CAS: 122666-87-9 EC: Index: REACH:	L-Tyrosine disodium salt dihydrate	≥ 1 – <3 %
		Eye Dam. 1: H318  Skin Sens. 1: H317 Warning	

### Section 4 First Aid Measures

#### Description of first aid measures

**If inhaled** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact** Wash off with soap and plenty of water. In case of modifications on the skin, seek medical advice.

**In case of eye contact** Rinse thoroughly with plenty of water for a sufficient length of time, also under the eyelids. In case of eye irritation consult an ophthalmologist.

**If swallowed** Never give anything by mouth to an unconscious person. Rinse mouth with water.

#### Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

#### Indication of any immediate medical attention and special treatment needed.

Treat symptomatically.

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### Section 5 Firefighting Measures

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#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

No information available.

#### Special hazards arising from the substance or mixture

Nature of decomposition products not known.

#### Advice for firefighters

Wear self-contained breathing apparatus for fire fighting if necessary.

#### Further information

The product itself does not burn.

### Section 6 Accidental Release Measures

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#### Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. For personal protection see section 8.

#### Environmental precautions

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

#### Reference to other sections

For disposal see section 13.

### Section 7 Handling and Storage

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#### Precautions for safe handling

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Use personal protection equipment.

#### Conditions for safe storage, including any incompatibilities.

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: +2°C to +8°C.

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### Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

## Section 8

## Exposure Controls/ Personal Protection

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### Control parameters

Components with workplace control parameters

### Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice.

### Personal protective equipment

#### Eye/face protection

Use equipment for eye/face protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves must satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

#### Body protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Do not let product enter drains.

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### Section 9 Physical and Chemical Properties

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#### Information on basic physical and chemical properties

<b>Appearance</b>	Form: liquid
<b>Odor</b>	No data available
<b>pH</b>	No data available
<b>Melting/freezing point</b>	No data available
<b>Boiling point and range</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability or exposure limits</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	No data available
<b>Water solubility</b>	at 20 °C soluble
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidizing properties</b>	No data available

#### Other information

No data available

### Section 10 Stability and Reactivity

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#### Reactivity

No data available.

#### Chemical stability

Stable under recommended storage conditions.

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### Possibility of hazardous reactions

No data available.

### Conditions to avoid

No data available.

### Incompatible materials

Strong oxidizing agents.

### Hazardous decomposition products

No data available.

## Section 11

## Toxicological Information

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### Information on toxicological effects

#### Acute toxicity

No data available.

#### Skin corrosion/irritation

Mixture may cause an allergic skin reaction.

#### Serious eye damage/eye irritation

Mixture causes serious eye irritation.

#### Respiratory or skin sensitization

No data available.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### Reproductive toxicity

No data available.

#### Specific target organ toxicity – single exposure

No data available.

#### Specific target organ toxicity – repeated exposure

No data available.

#### Aspiration hazard

No data available.

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### Additional Information

No information available.

### Components

**Pyruvic acid sodium salt**

#### Acute toxicity

No data available.

#### Skin corrosion/ irritation

Skin – reconstructed human epidermis (RhE)

Result: No skin irritation – 42 min

(OECD Test Guideline 439)

#### Serious eye damage/ eye irritation

Eyes – *In vitro* study

Result: Causes serious eye irritation – 6 h

(OECD Test Guideline 492)

#### Respiratory or skin sensitization

Local lymph node assay – mouse

Result: Positive

(OECD Test Guideline 429)

#### Germ cell mutagenicity

Ames test - *Escherichia coli* *Salmonella typhimurium*

Result: Negative

#### Carcinogenicity

#### Reproductive toxicity

No data available.

#### Specific target organ toxicity – single exposure

No data available.

#### Specific target organ toxicity – repeated exposure

No data available.

#### Aspiration hazard

No data available.



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### Serious eye damage/ eye irritation

Eyes - *In vitro* study

Result: Causes serious eye irritation - 6 h  
(OECD Test Guideline 492)

### Respiratory or skin sensitization

Local lymph node assay - mouse

Result: Positive  
(OECD Test Guideline 429)

### Germ cell mutagenicity

Ames test - *Escherichia coli* *Salmonella typhimurium*

Result: Negative

### Carcinogenicity

#### Reproductive toxicity

No data available.

#### Specific target organ toxicity - single exposure

No data available.

#### Specific target organ toxicity - repeated exposure

No data available.

#### Aspiration hazard

No data available.

### L-Tyrosine disodium salt dihydrate

#### Acute toxicity

LD50 Oral - Rat - female > 2.0 mg/kg

(OECD Test Guideline 423)

In analogy to similar products.

#### Skin corrosion/ irritation

Skin - reconstructed human epidermis (RhE)

Result: Non-corrosive

(OECD Test Guideline 431)

In analogy to similar products.

Skin - reconstructed human epidermis (RhE)

Result: Negative

(OECD Test Guideline 439)

In analogy to similar products.

#### Serious eye damage/ eye irritation

Eyes - Bovine cornea

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Result: Causes serious eye damage – 4 h

(OECD Test Guideline 437)

In analogy to similar products.

### Respiratory or skin sensitization

*In vitro* study

Result: Negative

(OECD Test Guideline 442C)

In analogy to similar products.

### Germ cell mutagenicity

Ames test - *Escherichia coli* *Salmonella typhimurium*

Result: Negative

In analogy to similar products.

### Carcinogenicity

#### Reproductive toxicity

No data available.

#### Specific target organ toxicity – single exposure

No data available.

#### Specific target organ toxicity – repeated exposure

No data available.

#### Aspiration hazard

No data available.

## Section 12

## Ecological Information

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### Toxicity

No data available.

### Persistence and degradability

No data available.

### Bioaccumulative potential

No data available.

### Mobility in soil

No data available.

### Results of PBT and vPvB assessment

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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Other adverse effects

No data available.

### Components

#### Pyruvic acid sodium salt

No data available.

#### L-Tyrosine disodium salt dihydrate

No data available.

Toxicity to daphnia and other aquatic invertebrates:

Static test EC50 – *Daphnia magna* – >100 mg/l – 48 h  
(OECD Test Guideline 202) In analogy to similar products

Toxicity to algae

Static test ErC50 – *Pseudokirchneriella subcapitata* – 8.02 mg/l – 72 h  
(OECD Test Guideline 201) In analogy to similar products  
Static test ErC50 – *Pseudokirchneriella subcapitata* – 2.22 mg/l – 72 h  
(OECD Test Guideline 201) In analogy to similar products

## Section 13

## Disposal Considerations

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### Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

### Contaminated packaging

Dispose of as unused product.

## Section 14

## Transport Information

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### UN-number

ADR/RID: -

IMDG: -

IATA: -

### UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

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In accordance with ADR / RID / IMDG / IATA

ADR/RID	IMDG	IATA
<b>UN number</b>		
-	-	-
<b>UN proper shipping name</b>		
Not dangerous goods	Not dangerous goods	Not dangerous goods
<b>Transport hazard classes</b>		
-	-	-
<b>Packaging group</b>		
-	-	-
<b>Environmental hazards</b>		
no	Marine pollutant: no	no

**Special precautions for user**

**Maritime transport in bulk according to IMO instruments**

### Section 15 Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No data available.

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

### Section 16 Other Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport, and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.