

 EURO OTC PHARMA® — Service mit Kompetenz und Substanz —	SAFETY DATA SHEET Conforms to Regulation (EC) No. 1907/2006 (REACH)	Datum: Seite: Vers.-Nr.	03.06.2024 1 von 8 01
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Art.-Ref.: L-CARNITINE HCL
SKU.: U-702172

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

1.1 Product identifier

Product name: L-CARNITINE HCL

Index-Nr.: -

EC-Nr.: 229-663-6

CAS-Nr.: 6645-46-1

REACH- Registration number.: -

Other means of identification:

- -

Product type:

-

Chemical formula:

- (R)-3-Carboxy-2-hydroxy-N,N,N-trimethyl-1-propanaminium hydroxide, hydrochloride

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

Identified uses:

- Dietary supplement/Food

Uses advised against:

- Not applicable

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier

Euro OTC Pharma GmbH

Edisonstr. 6

59199 Bönen

Telephone / fax / email

- 02383 / 922020

- 02383 / 92202150

- info@euro-otc.com

1.4 Emergency telephone number

0361 / 730730 (Gemeinsames Giftnotrufzentrum, Nordhäuser Str. 74, 99089 Erfurt) (Germany)

ChemTel Contract Number MIS5311335 –

USA and Canada: +1-800-255-3924 (toll free),

Australia: +1-300-954-583,

Brazil: +0-800-591-6042,

China: +400-120-0751,

India: +000-800-100-4086,

Mexico: 800-099-0731,

International phone number: +1-813-248-0585 (collect calls accepted)

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SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture

Product definition: Mono-constituent substance

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHSI)

- Skin Irritation Category 2
- Eye Irritation Category 2

2.2 Label elements

Label elements According to Regulation (EU) No.2020/878

Hazard pictograms:



Signal word: Warning

Hazard statements:

- H315: Causes skin irritation.
- H319: Causes serious eye irritation

Precautionary statement(s)

- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P405: Store locked up.

2.3 Other hazards

- None

SECTION 3: Composition/information on ingredients

3.1 Substances

Main component of the fabric

Product/ingredient name: L-Carnitine L-HCl ((R)-3-Carboxy-2-hydroxy-N,N,N-trimethyl-1- propanaminium hydroxide, hydrochloride)

%: 98

Classification: Hazard statement(s) Skin Irrit. 2 H315 Eye Irrit. 2 H319

Type: -

Index-Nr.: -

EG-Nr.: 229-663-6

CAS-Nr.: 6645-46-1

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Hazard Pictogram(s):



SECTION 4: First aid measures

4.1 Description of first aid measures

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Inhalation:

- Obtain medical attention. Remove patient from exposure. Give oxygen if breathing difficult. Apply artificial respiration if necessary.

Skin contact:

- Obtain medical attention. Remove contaminated clothing immediately and wash affected skin with water or soap and water.

Eye contact:

- Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes.

Ingestion:

- Obtain immediate medical attention. If swallowed, rinse mouth with water (only if the person is conscious).

4.2 Most important symptoms and effects, both acute and delayed Over-exposure signs/symptoms

- delayed Irritation, Coughing, Increased difficulty in breathing.

4.3 Indication of any immediate medical attention and special treatment needed

- Increased difficulty in breathing.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

- Extinguish with carbon dioxide, dry chemical, alcohol resistant foam or waterspray. As appropriate for surrounding fire

Unsuitable extinguishing media:

- Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

- Combustion or thermal decomposition will evolve toxic and irritant vapours. (Nitrogen oxides)

5.3 Advice for firefighters

Special protective actions for fire-fighters:

- Self-contained breathing apparatus to be worn if involved in fire. Water spray should be used to cool containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Put on protective clothing.
- Avoid inhalation of dusts.

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6.2 Environmental precautions

- Do not allow to enter drains, sewers or watercourses.

6.3 Methods and materials for containment and cleaning up

- Vacuum or sweep up spilled material.
- Avoid generation of dust.
- Transfer to a lidded container for disposal or recovery.
- To be disposed of as hazardous waste.

6.4 Reference to other sections

- See Section: 8 (Exposure controls / PPE) & 13 (Disposal)

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Avoid contact with skin and eyes. Avoid inhalation of dusts.
- Follow the principles of good occupational hygiene to control personal exposures.

7.2 Conditions for safe storage, including any incompatibilities

- Keep container tightly closed, dry and in a cool well-ventilated place. Keep away from heat and sources of ignition.
- Storage Temperature 1°C ~30°C
- Storage Life 2 years

7.3 Specific end use(s)

- Other information Specified end use(s)
 - Strong oxidizing agents.
 - Avoid prolonged storage.
 - Use as soon as possible.
 - Dietary supplement

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits:

- LTEL (8 hr TWA mg/m³)
- LTEL (8 hr TWA mg/m³)
- WEL: Workplace Exposure Limit (UK HSE EH40-2005)
- 10 mg/m³ (Respirable Dust)
- 4 mg/m³ (Inhalable Dust)

8.2 Exposure controls

Appropriate engineering controls

- Provide adequate ventilation, including appropriate local extraction if dust is likely to be evolved.

Personal protection equipment

- Eye/face protection
- Safety spectacles with side protection (EN166).
- Plastic or rubber gloves
- Minimum standard EN374-3.
- Apron or other light protective clothing, boots and plastic or rubber gloves (EN374-3).
- Respiratory protection
- Provide adequate ventilation, including appropriate local extraction. Where engineering controls are not fitted or inadequate

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- wear suitable respiratory protective equipment. A suitable dust mask(EN149 FFP3) or dust respirator with filter type P (EN143 or EN405 P3) may be appropriate.

Environmental exposure controls:

- Do not allow to enter drains, sewers or watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Appearance

General Information

Physical state: Crystalline

Color: White

Odor: Not available.

Odor threshold: Not available

Melting point/freezing point: Not available

Initial boiling point and boiling range: Not available

Flammability: Not available

Lower and upper explosion limit:

- Lower: Not applicable.
- Upper: Not applicable.

Flash point: Not applicable.

Auto-ignition temperature: Not applicable

Decomposition temperature:

- > 355 degC

pH:

- 2.5 – 2.9 (1% Solution in water)

Viscosity:

- Not applicable.

Solubility(ies)

- Soluble in: Ethanol

Solubility in water: Very soluble.

Partition coefficient: n-octanol/ water:

- Log Pow = -5.48 (L-Carnitine calculated)

Vapor pressure:

- 1.4E-8 Pa at 25 degC (L-Carnitine calculated)

Density (g/ml):

- 0.64 at 20 degC

Vapor density:

- Not applicable

Particle characteristics/ Median particle size: Not available

9.2 Other information

Information with regard to physical hazard classes Explosive properties:

- In line with the GHS

SECTION 10: Stability and reactivity

10.1 Reactivity

- This product is hygroscopic.

10.2 Chemical stability

- Stable under normal conditions.

10.3 Possibility of hazardous reactions

- None known.

10.4 Conditions to avoid:

- Protect from moisture.

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10.5 Incompatible materials:

- Strong oxidizing agents.

10.6 Hazardous decomposition products

- Nitrogen oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity-Ingestion

- LD50 :> 5000 mg/kg (rat)

Acute toxicity-Inhalation (4 hrs)

- No information available

Acute toxicity-Skin Contact

- No information available.

Skin corrosion/irritation

- Dust may cause irritation.
- Serious eye damage/irritation
- Skin sensitization data
- Dust may have irritant effect on eyes.
- It is not a skin sensitizer. (calculated)

Carcinogenicity

- No evidence of carcinogenicity.

Reproductive toxicity/Location

- No evidence of reproductive effects

STOT-single exposure

- **Inhalation:**
 - toxicity no data available
- **Ingestion:**
 - Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.

11.2 Information on other hazards

Transport information

Road and Rail Transport:

- **NOT CLASSED AS DANGEROUS FOR TRANSPORT**
- **IMDG/IMO: NOT CLASSED AS DANGEROUS FOR TRANSPORT**
- **IATA: NOT CLASSED AS DANGEROUS FOR TRANSPORT**

SECTION 12: Ecological information

12.1 Toxicity

- **Toxicity – Aquatic invertebrates**
 - No information available
- **Toxicity – Fish**
 - No information available
- **Toxicity – Algae**
 - EC50: 1042mg/l (Raphidocelis subcapitata)(calculated)
- **Toxicity – Sediment Compartment**
 - No information available.
- **Toxicity – Terrestrial Compartment**
 - No information available

12.2 Persistence and degradability

- Readily biodegradable.

12.3 Bioaccumulative potential (96 hrs)

- The product has no potential for bioaccumulation.

12.4 Mobility in soil

- The substance is predicted to have high mobility in soil.

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12.5 Results of PBT and vPvB assessment

- Not classified as PBT or vPvB.

12.6 Other adverse effects

- None known

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Material to be disposed of as hazardous waste. Incinerate under approved controlled conditions, using incinerators suitable for the disposal of noxious chemical waste.
 Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14: Transport information

Road and Rail Transport:

- NOT CLASSED AS DANGEROUS FOR TRANSPORT

IMDG/IMO:

- NOT CLASSED AS DANGEROUS FOR TRANSPORT

IATA:

- NOT CLASSED AS DANGEROUS FOR TRANSPORT

SECTION 15: Regulatory information

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

European Regulations - Authorization and/or Restriction On Use

Candidate List of Substances of Very

- Not listed

High Concern for Authorization

REACH: ANNEX XIV list of substances

- Not listed

subject to authorization

REACH: Annex XVII Registrations on

- Not listed

Placing on the market and use of certain dangerous substances,

Mixtures and articles

Community Rolling Action Plan (CoRAP)

- Not listed

Regulation(EC)N°850/2004 of the European

- Not listed

Parliament and of the Council on persistent organic pollutants

Regulation(EC) N°2037/2000 on substances

- Not listed

Regulation(EC) N°649/2012 of the European

- Not listed

Parliament and of the Council concerning the export and import of hazardous chemicals

Other EH40/2005 Workplace Exposure Limits

15:02 Chemical Safety Assessment

- No Chemical Safety Assessment (CSA) has been carried out

SECTION 16: Other information

The following sections contain revisions or new statements:

#1 to #16

LEGEND

Hazard Pictogram(s)

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Hazard Statement(s)

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary Statement(s)

References

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405: Store locked up.

Danish (Q)SAR Database (National Food Institute, Denmark)

Estimation Programs Interface (EPI) software (US Environmental Protection Agency)

European Chemicals Agency

European Regulations and Directives

International Agency for Research on cancer

Occupational Safety and Health Administration

Published chemical directories

Suppliers' safety data sheets

UK Health and Safety Executive

Abbreviations and acronyms:

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► Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information in this safety data sheet corresponds to our knowledge at the time of revision. The information is intended to give you guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The details are not transferable to other products. To the extent that the product mentioned in this safety data sheet is mixed, mixed or processed with other materials, or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.

The above information is based on the current state of our knowledge and experience. They describe the products with regard to safety requirements and do not represent a guarantee of properties. The recipient of our product is responsible for observing existing laws and regulations.