

Trade name: L-Carnitine

Substance number: 062491

Version: 2 / CH

Date revised: 21.12.2018

Replaces Version: 1 / CH

Print date: 04.10.19

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

1.1. Product identifier

L-Carnitine

Item No. 06249100

Substance / product identification

CAS-No. 541-15-1

EINECS-No. 208-768-0

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

Use of the substance/preparation

Chemical for synthesis

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

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

Molecular weight

Value 161.20 g/mol

Other information

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Ensure supply of fresh air.

After skin contact

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Wash off immediately with soap and water and rinse well. Remove contaminated, soaked clothing immediately and dispose of safely.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

Rinse out mouth and give plenty of water to drink. Seek medical advice immediately.

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

Water, Dry powder, Foam, Carbon dioxide

5.2. Special hazards arising from the substance or mixture

If a fire breaks out nearby evolution of dangerous gases possible. In the event of fire the following can be released: Nitrogen oxides (NOx)

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

Use self-contained breathing apparatus.

Other information

Suppress vapours with water spray jet. Do not discharge into surface waters/groundwater.

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

Do not inhale dust. Ensure adequate ventilation.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

To pick up dry. Dampen, pick up mechanically and dispose of. Clean up affected area. Avoid raising dust.

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

No special requirements.

7.2. Conditions for safe storage, including any incompatibilities**Recommended storage temperature**

Value 15 - 25 °C

Requirements for storage rooms and vessels

Keep tightly closed in a dry and cool place. Keep container tightly closed and dry.

SECTION 8: Exposure controls/personal protection**8.2. Exposure controls****General protective and hygiene measures**

Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands and face after work.

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Respiratory protection

necessary; Breathing apparatus in the event of aerosol.

Hand protection

nitrile rubber - NBR

Material thickness 0.11 mm

Breakthrough time > 480 min

Eye protection

necessary

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** crystalline**Colour** white**Odour** odourless**pH value**

Value 6.5 to 8.5

Concentration/H₂O 50 g/l**Melting point**

Value 190 to 195 °C

Source Safety Data Sheet Supplier

Initial boiling point and boiling range

Remarks No data available

Flash point

Remarks No data available

DensityValue 0.64 g/cm³**Solubility in water**

Value 800 g/l

Temperature 20 °C

Partition coefficient: n-octanol/water

log Pow -5.48

Method calculated

Ignition temperature

Value > 365 °C

9.2. Other information**Bulk density**Value 636 kg/m³**SECTION 10: Stability and reactivity****10.1. Reactivity**

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

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10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Protect from light and atmospheric moisture.

10.5. Incompatible materials

Strong oxidising agents

10.6. Hazardous decomposition products

Nitrous gases, Carbon monoxide and carbon dioxide, Toxic gases/vapours, Nitrogen

Other information

Danger of dust explosion

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

Species	rat		
LD50	>	5000	mg/kg
Method	OECD 401		

Skin corrosion/irritation

Species	rabbit
evaluation	slightly irritant
Method	OECD 404

Serious eye damage/irritation

Species	rabbit
evaluation	slightly irritant
Method	OECD 405

Sensitization

Species	guinea pig
Method	OECD 406
Remarks	negative

Mutagenicity

evaluation	No mutagenicity in the Ames-test.
Method	OECD 471
Remarks	negative

Other information

Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information**12.3. Bioaccumulative potential****Partition coefficient: n-octanol/water**

log Pow	-5.48
Method	calculated

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential**

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not to be expected.

12.6. Other adverse effects

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General information / ecology

Do not allow it to reach soil, ground water, water bodies or sewage system.

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

In accordance with regulations for special waste, must be taken to an authorised special waste disposal site.

Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	Non-dangerous goods	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

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 1

SECTION 16: Other information**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.