

Safety Data Sheet

L-Glutamine Solution (200 mM)

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

Date of compilation 04.10.2017

Revision Date 15.07.2024

Version 003/07.2024

Replaces version of 11.12.2023 (Version 002/12.2023)

Section 1 Identification of the substance/mixture and of the company/undertaking

Product identifiers

Product name: L-Glutamine Solution (200 mM)

Catalogue No.: GLN-B

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: Laboratory chemicals, Manufacture of substances
For research and development or in-vitro diagnostic use only.
Not for therapeutic use. Not for use on human subjects.

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
Website: 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)

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Section 2 Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

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.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

Section 3 Composition/information on ingredients

Substances

not relevant (mixture)

Mixtures

The product contains no components which at their given concentration, are considered to be hazardous to health.

Section 4 First aid measures

Description of first aid measures

General notes	Treat symptomatically.
Following skin contact	Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Following eye contact	Flush eyes with water as a precaution.
Following inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Following swallowing	Make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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Most important symptoms and effects, both acute and delayed

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

No data available.

Section 5 Firefighting measures

Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x), Not combustible. Ambient fire may liberate hazardous vapours.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

Reference to other sections

For disposal see section 13.

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Section 7 Handling and storage

Precautions for safe handling

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Tightly closed. Recommended storage temperature $\leq -15^{\circ}\text{C}$.

Storage class (TRGS 510): 12: Non Combustible Liquids

Specific end use(s)

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

Section 8 Exposure controls/personal protection

Control parameters

Ingredients with workplace control parameters.

Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

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

Skin protection

Not required

Respiratory protection

Not required; except in case of aerosol formation.

Control of environmental exposure

Do not let product enter drains.

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Section 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Form: Liquid
Odor	No data available
pH	No data available
Melting/freezing point	No data available
Boiling point and range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or exposure limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Water solubility	at 20°C soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	None

Other information No data available

Section 10 Stability and Reactivity

Reactivity	No data available
Chemical stability	The product is chemically stable under standard ambient conditions (Room temperature).
Possibility of hazardous reactions	Violent reactions possible with the generally known reaction partners of water.
Conditions to avoid	No information available
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	In the event of fire: see section 5.

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Section 11 Toxicological information

Information on toxicological effects

Mixture

Acute toxicity

Oral: No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

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

Additional Information

Endocrine disrupting properties

Product

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

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Section 12 Ecological information

Toxicity [Mixture] 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

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

Other adverse effects No data available

Additional Information

Endocrine disrupting properties

Product

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 13 Disposal considerations

Waste treatment methods

Product

Dispose of in accordance with local regulations and with the Directive on waste 2008/98/EC.

Handle uncleaned containers like the product itself.

Contaminated packaging Dispose of as unused product

Product / Packaging disposal: No information available

Waste codes / waste designations according to LoW: No information available

Waste treatment-relevant information: No information available

Sewage disposal-relevant information: No information available

Other disposal recommendations: No information available

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Section 14 Transport Information

In accordance with ADR / RID / IMDG / IATA

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

Special precautions for user

No data available

Maritime transport in bulk according to IMO instruments No information available

Section 15 Regulatory information

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

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

Chemical Safety Assessment

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

Section 16 Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge of the chemical substance or mixture and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road;
AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight;
CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation;
DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response;
EmS - Emergency Schedule; ENCS - Existing & New Chemical Substances (Japan);
ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice;
IARC - International Agency for Research on Cancer; IATA - International Air Transport Association;
IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;
IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization;
IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods;
IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan);
ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory;
LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose);
MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified;
NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level;
NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals;
OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention;
PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances;
(Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals;
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature;
SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory;
TSCA - Toxic Substances Control Act (United States); UN - United Nations;
UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative