



## Safety Data Sheet

Revision Date: 30-October-2015

24 Hour Emergency #: 1-800-255-3924

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: L-Glutamine 200 mM  
CATALOG NUMBER: 118-084-721  
CHEMICAL NAME: Aqueous solution of L-Glutamine in physiological saline.

#### Company/Undertaking Identification

Quality Biological Inc.  
7581 Lindbergh Drive  
Gaithersburg, MD 20879  
301-840-9331

### 2. HAZARDS IDENTIFICATION

#### GHS – Classification

##### Signal Word

Not Hazardous

##### Health hazards

Not Hazardous

##### Physical hazards

Not Hazardous

##### Principle Routes of Exposure

##### Potential Health Effects

<b>eyes</b>	May cause eye irritation with susceptible persons.
<b>Skin</b>	May cause skin irritation in susceptible persons.
<b>Inhalation</b>	May be harmful by inhalation.
<b>Ingestion</b>	May be harmful if swallowed.

##### Specific effects

<b>Carcinogenic effects</b>	None
<b>Mutagenic effects</b>	None
<b>Reproductive toxicity</b>	None
<b>Sensitization</b>	None

## Target Organ Effects

No known effects under normal use conditions

## HMIS

Health	0
Flammability	0
Reactivity	0

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

## 4. FIRST AID MEASURES

<b>Skin contact</b>	Immediately wash skin with copious amounts of water followed by washing with soap and copious amounts of water. Remove all contaminated clothing.
<b>Eye contact</b>	Flush eyes with copious amounts of water for at least 15 minutes with eyelids separated and call a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person
<b>Inhalation</b>	If person is unconscious seek emergency medical attention, if person is conscious remove to fresh air and call a physician
<b>Notes to physician</b>	Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**General:** Wear Self-Contained breathing apparatus in pressure demand, MSHA/NIOSH approved. During a fire, irritating and toxic gases may be generated by thermal decomposition.

**Extinguishing Media:** Substance is non-combustible, use most readily available; Water Spray, Carbon Dioxide, dry chemical powder or appropriate foam.

**Autoignition Temperature:** N/A

**Explosion limits:** N/A

**Flash Point:** Not Available

## 6. ACCIDENTAL RELEASE MEASURES

**Use Personal Protective Equipment:** Including Chemical Splash Goggles, Chemical Resistant Gloves, and appropriate clothing to prevent skin exposure. In addition, a Respiratory protection program that complies with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

**Spills and Leaks:** Absorb spill with inert material (e.g. Vermiculite, sand, earth) then place in a suitable container. Clean up spills immediately, observing precautions in the Sections 6 and 8. Provide ventilation.

## 7. HANDLING AND STORAGE

### Handling

No special handling advice required

7581 Lindbergh Drive • Gaithersburg, MD 20879

(301) 840-9331 • Toll Free (800) 443-9331 • Fax (301) 840-0743

Email: [customerservice@qualitybiological.com](mailto:customerservice@qualitybiological.com) • Web Site: [www.qualitybiological.com](http://www.qualitybiological.com)



## **Storage**

Store in a tightly closed container at -10° to -20°C. Keep container tightly closed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Occupational exposure controls**

#### **Exposure limits**

We are not aware of any national exposure limit.

<b>Engineering measures</b>	Ensure adequate ventilation, especially in confined areas
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#### **Personal protective equipment**

<b>Respiratory protection</b>	In case of insufficient ventilation wear suitable respiratory equipment
<b>Hand protection</b>	Protective gloves
<b>Eye protection</b>	Safety glasses with side-shields
<b>Skin and body protection</b>	Lightweight protective clothing.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice
<b>Environmental exposure Controls</b>	Prevent product from entering drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### **General Information**

<b>Form</b>	Liquid
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### **Important Health Safety and Environmental Information**

<b>Boiling point/range</b>	°C No data available	°F No data available
<b>Melting point/range</b>	°C No data available	°F No data available
<b>Flash point</b>	°C No data available	°F No data available
<b>Autoignition temperature</b>	°C No data available	°F No data available
<b>Oxidizing properties</b>	No information available	
<b>Water solubility</b>	No data available	

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions.
<b>Materials to avoid</b>	No information available
<b>Hazardous decomposition products</b>	Carbon oxides
<b>Polymerization</b>	Hazardous polymerisation does not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

Not Hazardous.

**Principle Routes of Exposure/ Potential Health effects**

<b>Eyes</b>	May cause eye irritation with susceptible persons
<b>Skin</b>	May cause skin irritation in susceptible persons
<b>Inhalation</b>	May be harmful by inhalation
<b>Ingestion</b>	May be harmful if swallowed

**Specific effects**

<b>Carcinogenic effects</b>	No information available
<b>Mutagenic effects</b>	No information available
<b>Reproductive toxicity</b>	No information available
<b>Sensitization</b>	No information available

**Target Organ Effects**

No information available

**12. ECOLOGICAL INFORMATION**

No Information found.

**13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations

**14. TRANSPORT INFORMATION****IATA**

<b>Proper shipping name</b>	Not classified as dangerous in the meaning of transport regulations
<b>Hazard Class</b>	No information available
<b>Subsidiary Class</b>	No information available
<b>Packing group</b>	No information available
<b>UN-No</b>	No information available

**15. REGULATORY INFORMATION****International Inventories****U.S. Federal Regulations****SARA 313**

This product is not regulated by SARA.



**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain HAPs.

**U.S. State Regulations**

**California Proposition 65**

This product does not contain chemicals listed under Proposition 65

**WHMIS hazard class:**

Non-controlled

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

**16. OTHER INFORMATION**

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

**THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT; HOWEVER, IT MAY NOT BE ALL INCLUSIVE. THIS INFORMATION SHOULD BE USED ONLY AS A GUIDE. QUALITY BIOLOGICAL, INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM THE HANDLING OR CONTACT WITH THE ABOVE PRODUCT.**

**End of Safety Data Sheet**