



# Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Glutamine (L) USP

30-4411

## Section 1: Identification

**Product Name** Glutamine (L) USP  
**Commercial Name** Not available.  
**Product Use** Not available.  
**Restrictions On Use** Not available.  
**Product Code** 30-4411  
**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760

In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300**

## Section 2: Hazard(s) Identification

**OSHA Haz Com:** Not available.  
**CFR 1910.1200**  
**Signal Word** NON-HAZARDOUS  
**Hazard Statement(s)** May cause eye and skin irritation.  
**Pictogram(s) or Symbol(s)**

### Precautionary Statement(s):

**Prevention** Not available.  
**Response** Not available.  
**Storage** Not available.  
**Disposal** Not available.

## Section 3: Composition/Information on Ingredients

**Substance/Mixture** Substance  
**Components** Glutamine (L) USP  
**% By Weight** 100  
**CAS#** 56-85-9  
**Molecular Weight** 146.15 g/mole  
**Chemical Formula** C<sub>5</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub>  
**Synonym(s)** L-2-Aminoglutaramic acid

### Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Glutamine (L) USP	56-85-9	100	Not available	Not available

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms continue, call a doctor/physician.
<b>Skin Contact</b>	Rinse with plenty of water. If symptoms continue, call a doctor/physician.
<b>Eye Contact</b>	Immediately rinse cautiously with water for 15 - 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms continue, call a doctor/physician.
<b>Ingestion</b>	Rinse mouth. Immediately get medical advice/attention.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Not available
<b>Delayed</b>	Not available
<b>Immediate Medical Attention</b>	Not available.

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Use water mist, dry chemical powder, fire foam or carbon dioxide.

**Unsuitable Extinguishing Media**

Applying direct water may be dangerous because fire may expand to surroundings.

**Products of Combustion**

General caution; powdered materials may cause dust explosions under certain conditions.

**Firefighters Special Equipment and Precautions**

Cut off any ignition sources and extinguish with an appropriate agent. Cool the surrounding tank and the buildings with direct water jet to avoid risk of fire spreading. Take action from windward. Keep out except responsible personnel. Move container to a safe area if it can be done without risk.

**Section 6: Accidental Release Measures**

Personal precautions, protective equipment, and emergency procedures: Keep out except responsible personnel. Wear suitable protective equipment described in "SECTION 8: Exposure controls/personal protection". Avoid release into the environment because product may cause local effects. Methods and materials for containment and cleaning up: Sweep up scattered materials or vacuum them using a vacuum cleaner so as not to cause dust then collect them into an empty container. Do not eat or drink near handling and storage locations. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent from flowing into drains, sewers, basements or closed areas.

**Section 7: Handling and Storage**

Handling: Install appropriate equipment and wear suitable protective apparatus described in "SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION". Do not eat, drink or smoke when using this product. Avoid the generation of dust. Hygiene: Wash hands thoroughly after handling. Storage: Technical measures: In the storage area, install adequate light and ventilation systems to handle hazardous materials. Take precautionary measures against static discharge. Incompatible materials: Oxidizing agents. Conditions for safe storage: Controlled room temperature in tight container. Packing material: Use a sealed container without damage or leakage.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	Not available.
<b>Engineering Controls</b>	In a work place where dusts generate, ensure to use sealed instrument or local ventilation.
<b>Personal Protection</b>	Respiratory protection In case of dust generation, wear appropriate protective mask or air aspirator as required. Hand protection If hand contact is possible, wear protective gloves. Eye protection Wear safety glasses or goggles if in eyes. Skin and body protection Wear protective clothing and apron if necessary.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Solid (20°C), white		
<b>Odor</b>	Odorless		
<b>Odor Threshold</b>	Not available.		
<b>Melting Point</b>	185°C(decomposition)	<b>pH</b>	4.0-6.0 at 20 g/1000 mL of water
<b>Freezing Point</b>	Not available.	<b>Vapor Pressure</b>	Not available.
<b>Boiling Point/Range</b>	Not available.	<b>Vapor Density</b>	Not available.
<b>Decomposition temperature</b>	Not available.	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	Not available.	<b>Evaporation Rate</b>	Not available.
<b>Flash Point</b>	Not available.	<b>Autoignition temperature</b>	Not available.
<b>Flammability</b>	Not available.	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not available.
		<b>Upper</b>	Not available.
<b>Solubility(ies)</b>	4.8 g/100 g of water at 30°C and practically insoluble in methanol, ethanol, ether, benzene, acetone, ethyl acetate.		
<b>Other</b>	Not available.		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Stable under normal handling condition.
<b>Chemical Stability</b>	Stable under normal handling condition.
<b>Hazardous Polymerization</b>	No hazardous reaction expected under normal handling.
<b>Conditions to Avoid</b>	Avoid high temperature, high humidity or light.
<b>Incompatible Materials</b>	Oxidizing agents
<b>Hazardous Decomposition Products</b>	In case of fire, toxic decomposition products may be generated.

**Section 11: Toxicological Information**

RTECS MA2275100

**Acute Toxicity**

Acute toxicity (oral): Rat LD50 &gt; 16,000 mg/kg

**Skin Corrosion/Irritation**

Not available.

**Serious Eye Damage/Irritation**

Not available.

**Respiratory or Skin Sensitization**

Not available.

**Germ Cell Mutagenicity**

Not available.

**Carcinogenicity**

Not available.

**Reproductive Toxicity**

Not available.

**Routes of Entry**

Not available

**Symptoms Related to Exposure**

Not available

**Potential Health Effects**

Not available

**Target Organ(s)** Not available**Section 12: Ecological Information****Ecotoxicity**

Not available

**Persistence and Degradability**

Not available

**Bioaccumulative Potential**

Not available

**Mobility in Soil**

Not available

**Other Adverse Effects**

L-Glutamine is one of common substances (amino acids) composing animal or plant body and is degraded by oxidation and hydrolysis. No serious influence to environment is expected.

**Section 13: Disposal Considerations****Waste Disposal**

Dispose of waste in accordance with applicable local, regional and international regulations and standards. When disposing, consult to a certificated waste trader or local offices if they deal with the waste.

**Disposal of Container**

Used container should be recycled after cleaning or dispose of in compliance with related laws and local regulations. Contents should be removed completely when dispose of empty containers.

**Other Considerations**

Not available

**Section 14: Transport Information****DOT Classification**

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

**Section 15: Regulatory Information****Regulations**

OSHA: Not listed TSCA inventory: Listed on the TSCA Inventory. TSCA SNUR: Not listed SARA Title III: Section 302 (Extremely Hazardous Substances): Not listed Section 304 (Hazardous Substances): Not listed Section 313 (TRI Chemicals): Not listed CERCLA Reportable Quantity: Not listed Clean Air Act: This product does not contain any substances regulated as hazardous air pollutants under Section 112 of the Clean Air Act. Clean Water Act: This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act.

**Other**

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC). DSCL (EEC): This product is not classified according to the EU regulations.

**Section 16: Other Information**

Not available.