

Material Safety Data Sheet

L-Glutamine

Cat. No: 07100

1 Product and Company Identification

- 1.1 Product Name:** L-Glutamine
- 1.2 Catalog Number:** 07100
- 1.3 Synonyms:** 2-Aminoglutaramic Acid, L-2- Aminoglutaramic Acid, Cebrogen, (S)-2,5-Diamino-5-Oxopentanoic Acid, Glumin, Glutamic Acid Amide, L-Glutamic Acid Gamma-Amide, Glutamic Acid 5-Amide, Glutamine, Gamma-Glutamine, L-(+)-Glutamine, Levoglutamid, Levoglutamide, Pentanoic Acid,2,5-Diamino-5-Oxo-,(S)-, Stimulina
- 1.4 Product Use:** Cell Culture
- 1.5 Manufacturer/Supplier:** STEMCELL Technologies Inc.
Suite 400, 570 West 7th Avenue
Vancouver, BC V5Z 1B3
Canada
- 1.6 In Case of Emergency Call:** 604-877-0713
- 1.7 Date Effective:** January 25, 2011
- 1.8 Prepared By:** Quality Control

2 Composition / Information on Ingredients

2.1 Component	CAS No.	%W/W
L-glutamine	56-85-9	2.92

3 Hazards Identification

- 3.1 Emergency Overview:** This product is a potential irritant to eyes, respiratory system, and skin. This product may also be harmful if ingested. Complete toxicological properties have yet to be determined.
- 3.2 Routes of Exposure:** Absorbed through skin, eye contact, inhalation, and ingestion.
- 3.3 Potential Health Effects:**
- 3.3.1 Eye:** May cause eye irritation.
- 3.3.2 Skin:** May cause skin irritation.
- 3.3.3 Inhalation:** May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
- 3.3.4 Ingestion:** May be harmful if swallowed.
- 3.4 Chronic Effects/Carcinogenicity:** Behavioural: Euphoria (refer to RTECS #: MA2275100)
- 3.5 OSHA Regulatory Status:** Not Available.

4 First Aid Measures

- 4.1 Eyes:** In case of contact with eyes, flush thoroughly with water. Call a physician.
- 4.2 Skin:** In case of contact with skin, wash the affected area with soap and copious amounts of water. Should irritation occur, contact a physician.

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- 4.3 Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.
- 4.4 Inhalation:** If inhaled, remove person to fresh air. If breathing becomes difficult, call a physician.
- 4.5 Note to Physician:** Not Applicable.

5 Fire Fighting Measures

- 5.1 Flash Point/Method:** Not Available.
- 5.2 Explosive Limits:**
- 5.2.1 Upper:** Not Available.
- 5.2.2 Lower:** Not Available.
- 5.3 Autoignition Temperature:** Not Available.
- 5.4 Hazardous Combustion Products:** Emits toxic fumes under fire conditions.
- 5.5 Conditions of Flammability:** Not Available.
- 5.6 Extinguishing Media:** Water spray, dry chemical powder, or appropriate foam.
- 5.7 Fire Fighting Procedures:** Not Available.
- 5.8 Explosion Data:**
- 5.8.1 Sensitivity to Mechanical Impact:** Not Available.
- 5.8.2 Sensitivity to Static Discharge:** Not Available.

6 Accidental Release Measures

- 6.1 Leak and Spill Procedure:** Wear chemical-resistant gloves. Absorb spill and place in closed container for disposal. Ventilate and wash area thoroughly after clean-up is complete.

7 Handling and Storage

- 7.1 Handling:** Should be handled by trained personnel observing good laboratory practices. Avoid breathing vapor. Avoid skin contact or swallowing. Keep away from incompatibles such as oxidizing agents.
- 7.2 Storage:** Store at -20°C.

8 Exposure Controls/Personal Protection

- 8.1 Engineering Controls:** Use with adequate ventilation.
- 8.2 Personal Protective Equipment:**
- 8.2.1 Respiratory Protection:** Not required.
- 8.2.2 Eye Protection:** Safety glasses.
- 8.2.3 Skin Protection:** Lab coat, latex gloves.
- 8.3 General Hygiene Considerations:** Wash hands after use.
- 8.4 Exposure Limits:**
- 8.4.1 ACGIH TLV-TWA:** Not Available.
- 8.4.2 OSHA PEL-TWA:** Not Available.

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9 Physical/Chemical Properties:

9.1 Appearance:	Clear liquid.
9.2 Odor:	Odorless
9.3 Physical State:	Liquid
9.4 pH:	Approximately 5.0 – 6.0
9.5 Boiling Point:	Not Available
9.6 Melting Point:	Not Available.
9.7 Freezing Point:	Not Available.
9.8 Vapor Pressure:	Not Available.
9.9 Vapor Density:	Not Available.
9.10 Specific Gravity:	Not Available.
9.11 Evaporation Rate:	Not Available.
9.12 Solubility in Water:	Not Available.
9.13 Odor Threshold:	Not Applicable.
9.14 Coefficient of Water/Oil Distribution:	Not Available.

10 Stability/Reactivity:

10.1 Chemical Stability:	Stable
10.2 Conditions to Avoid:	Not Available
10.3 Incompatibility (Material to Avoid):	Not Available
10.4 Hazardous Decomposition/By-Products:	Not Available.
10.5 Hazardous Polymerization:	Hazardous polymerization does not occur.

11 Toxicological Information

11.1 Effects of Short-Term Exposure:	Not Available.
11.2 Effects of Long-Term Exposure:	Not Available.
11.3 Irritancy of Product:	Not Available.
11.4 Sensitization to Product:	Not Available.
11.5 Carcinogenicity:	Not Available.
11.6 Reproductive Toxicity:	Not Available.
11.7 Teratogenicity and Embryotoxicity:	Not Available.
11.8 Mutagenicity:	Not Available.
11.9 Name of Toxicologically Synergistic Products:	Not Available.
11.10 LD50 (specify species and route):	Not Available.
11.11 LC50 (specify species):	Not Available.

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12 Ecological Information

12.1 Not Available.

13 Disposal Considerations

13.1 **Waste Disposal Method:** Disposal should be in accordance with existing practices at your institution. Observe all Federal, Provincial, and Local Laws.

14 Transport Information

14.1 Transport Canada

14.1.1 **PIN No.:** Not Available.

14.2 U.S. Department of Transportation:

14.2.1 **Proper Shipping Name:** Not Available.

14.2.2 **Hazard Class:** This substance is not known to be hazardous for transport.

14.2.3 **ID. Number:** Not Available.

14.2.4 **Packing Group:** Not Available.

14.2.5 **Label Statement:** Not Available.

15 Regulatory Information

15.1 **WHMIS Classification:** Not Available.

15.2 **Note:** This MSDS was prepared according to the Canadian Controlled Products Regulation and contains all of the information required by those regulations.

16 Other Information

16.1 **Preparation Information:** Refer to PIS No. 07100.

16.2 **This MSDS has been revised in the following section(s):** 8.2.1, 11.2, 11.10

16.3 **Original Issue Date:** October 1, 2001

16.4 **Notice:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StemCell Technologies Inc., shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Material Safety Data Sheet (MSDS) is current as of the Date Prepared shown in Section 1.7 of this document and may be subject to ammendment by StemCell Technologies Inc.

16.5 **Disclaimer:** **THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT USED FOR DIAGNOSTIC OR THERAPEUTIC APPLICATIONS.**