



SAFETY DATA SHEAT

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING																			
Product Name	L-Glutamine 200mM																		
Code	3131																		
General Name	L-Glutamine solution																		
CAS No.	N. A																		
EC-No.	N. A																		
Details of the supplier of the SDS	Cell Science Inc. 82-16, Imozawa-aza-Gongenmoriyama, Aoba-ku Sendai, 989-3212, JAPAN Tel : +81-22-343-5116 FAX: +81-22-343-1195																		
Emergency telephone number	--																		
Relevant identified uses of the substance or mixture and uses advised against	Laboratory chemicals, Research of Cell Biology																		
2. Hazards Identification																			
GHS Classification of the substance or Mixture	Not a hazardous substance or Mixture according to the Globally Harmonized System (GHS).																		
Label elements	The product does not need to be labeled in accordance with EC directives or respective national laws.																		
Other hazards	N. A																		
3. Composition/information on Ingredients																			
Substances	Water solution																		
Components : This product is water solution of 5 components																			
<table border="1"><thead><tr><th>Component</th><th>g/L</th><th>CAS No.</th></tr></thead><tbody><tr><td>L-Glutamine</td><td>29.2</td><td>56-85-9</td></tr><tr><td>NaCl</td><td>8.0</td><td>7647-14-5</td></tr><tr><td>Na₂HPO₄</td><td>1.15</td><td>7558-79-4</td></tr><tr><td>KH₂PO₄</td><td>0.2</td><td>7778-77-0</td></tr><tr><td>KCl</td><td>0.2</td><td>7447-40-7</td></tr></tbody></table>		Component	g/L	CAS No.	L-Glutamine	29.2	56-85-9	NaCl	8.0	7647-14-5	Na ₂ HPO ₄	1.15	7558-79-4	KH ₂ PO ₄	0.2	7778-77-0	KCl	0.2	7447-40-7
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4. First aid measures																			
General advice	Consult a physician. Show this SDS to the doctor in attendance.																		
If inhaled	Move person into fresh air. If not breathing, give artificial respiration, consult a physician.																		
If skin contact	Wash off with soap and plenty of water.																		
In case of eye contact	Flush eyes with water as a precaution.																		
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water.																		
5. FIREFIGHTING MEASURES																			
Suitable extinguishing media	no data available																		
Special hazards arising from the substance or mixture	no data available																		
Advice for firefighters	no data available																		
Further information	no data available																		
6. ACCIDENTAL RELEASE MEASURES																			

Personal precautions, protective equipment and emergency procedures	Avoid breathing vapors, mist or gas.
Environmental precautions	no data available
Methods and materials for containment and cleaning up	Keep in suitable, closed containers for disposal.
Reference to other sections	For disposal see section 13.
7. HANDLING AND STORAGE	
Precautions for safe handling	Use a local ventilating device. Use a glove, a mask, goggles, the hazmat suit for the individual
Conditions for safe storage, including any incompatibilities	Store in cool and dark place. Keep container tightly closed in a cool place.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Control parameters	Occupational Exposure Limits Contains no substances with occupational exposure limit values.
Exposure controls	Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Personal protective equipment Eye/face protection Face shield and safety glasses Use equipment for eye protection. Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Body Protection Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection Respiratory protection not required.
9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Clear, Liquid
Odor	No odor
pH	7.0~7.8
Melting point/freezing point	-2~+2°C
Initial boiling point and boiling range	98~100°C
Flash point	no data available
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapor pressure	no data available
Vapor density	no data available
Relative density	no data available
Water solubility	Freely 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	no data available
10. STABILITY AND REACTIVITY	
Chemical stability	no data available
Reactivity	no data available
Possibility of hazardous reactions	no data available
Conditions to avoid	no data available
Incompatible materials	no data available
Hazardous decomposition products	Other decomposition products - no data available
11. TOXICOLOGICAL INFORMATION	
Acute toxicity	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
Potential health effects	no data available
12. ECOLOGICAL INFORMATION	
Toxicity	no data available
Persistence and degradability	no data available
Bio-accumulative potential	no data available
Mobility in soil	no data available
Results of PBT and vPvB assessment	no data available
Other adverse effects	no data available
13. DISPOSAL CONSIDERATIONS	
Waste treatment methods	It is necessary to handle the disposal according to a country, a local law and regulation appropriately
Contaminated packaging	Dispose of as unused product.
14. TRANSPORT INFORMATION	
ADR/RID	Not regulated, Not dangerous goods
Name	-
UN number	-
Packaging group	-
IMDG	Not regulated, Not dangerous goods
Name	-
UN number	-
Transport hazard	-
Packaging group	-
Marine pollutant	no
IATA	Not regulated, Not dangerous goods
Name	-
UN number	-

Packaging group	-
Environmental hazards	no
15. REGULATORY INFORMATION	
Safety, health and environmental regulations/legislation specific for the substance or mixture National regulatory information	
Fire Service Law:	Not applicable to dangerous materials
Poisonous and Deleterious Substances Control Law:	Not applicable
Industrial Safety and Health Law	
Ordinance on Prevention of Hazards Due to Specified Chemical Substances:	Not applicable
Ordinance on Prevention of Organic Solvent Poisoning:	Not applicable
Harmful Substances Required Permission for Manufacture:	Not applicable
Substances Subject to be Notified Names:	Not applicable
Substances Subject to be Indicated Names:	Not applicable
Circular concerning Information on Chemicals having Mutagenicity – Annex 2: Information on Existing Chemicals having Mutagenicity:	Not applicable
Circular concerning Information on Chemicals having Mutagenicity – Annex 1: Information on Notified Substances having Mutagenicity:	Not applicable
Harmful Substances Prohibited from Manufacture:	Not applicable
Substances Prevented From Impairment of Health:	Not applicable
Ordinance on Prevention of Lead Poisoning:	Not applicable
Ordinance on Prevention of Tetraalkyl Lead Poisoning:	Not applicable
Enforcement Order of the Industrial Safety and Health Law – Attached table 1 (Dangerous Substances):	Not applicable
Act on Confirmation, etc. of Release Amounts of Specific	Not applicable

<p>Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof:</p> <p>Chemical Substance Control Law:</p>	<p>Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.</p>
<p>16. OTHER INFORMATION</p>	
<p>Reference</p>	<p>--</p>
<p>Further information</p>	<p>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 and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Cell Science Incorporation shall not be held liable for any damage resulting from handling or from contact with the above product.</p>