



Safety Data Sheet  
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** Glutamic Acid, 99+%  
**NCL Catalog Number** G-60  
**Product Description** Laboratory chemical  
**Manufacturer** EMD Chemicals Inc. PO Box 70, 480 Democrat Road  
Gibbstown, NJ 08027  
**Supplier** NCL of Wisconsin, Inc. PO Box 8, Birnamwood, WI 54414  
Telephone: 1-800-648-7836 Fax: 715-449-2454  
Email: [nclabs@nclabs.com](mailto:nclabs@nclabs.com) Emergency Contact: 1-800-424-9300 (Chemtrec)

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS Classification** Not classified  
**Signal Word** Not applicable  
**Pictograms** None  
**Hazard Statements** Not applicable  
**Precautionary Statements** Not applicable  
**Other Hazards Not Contributing to the Classification** None under normal conditions.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Identity** C<sub>5</sub>H<sub>9</sub>NO<sub>4</sub>  
**Common Name** Not applicable

Substance

Name	CAS #	Approximate %
Glutamic Acid	56-86-0	100

**SECTION 4: FIRST AID MEASURES**

Description of First Aid Measures

**General First Aid Measures** Never give anything by mouth to an unconscious person. Seek medical advice if you feel unwell.  
**If Inhaled** Remove person to fresh air and keep comfortable for breathing. Allow victim to rest. Seek medical attention if you feel unwell.  
**In Case of Skin Contact** Remove contaminated clothing and wash exposed skin with mild soap and water. Rinse with warm water.  
**In Case of Eye Contact** Immediately flush eyes with plenty of water. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops.  
**If Swallowed** Rinse mouth. Get medical attention if you feel unwell.

Most Important Symptoms/Effects Acute and Delayed Not applicable

Indication of Immediate Medical Attention and Special Treatment Needed No additional information available.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media** Foam. Dry powder. Sand. Carbon dioxide. Water spray.

**Unsuitable Extinguishing Media** Do not use high pressure water stream.

**Special Hazards Arising from the Chemical** No additional information available.

**Special Protective Actions for Fire-Fighters** Wear self-contained breathing apparatus and protective clothing. Keep exposed containers cool with water spray.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions** Use personal protective equipment (see section 8). Evacuate area of non-essential personnel. Eliminate ignition sources.

**Environmental Precautions** Prevent entry to surface and ground waters.

**Methods and Materials for Containment and Cleaning Up** Clean up spills with inert solids. Collect spillage. Store away from other materials. Ensure compliance with local, state and federal regulations.

**SECTION 7: HANDLING AND STORAGE**

**Precautions for Safe Handling** Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Conditions for Safe Storage Including any Incompatibilities** Keep in a tightly closed container, stored in a cool, dry, ventilated area. Store away from sunlight, which can contribute to instability.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control Parameters** Not applicable

**Appropriate Engineering Controls** Provide adequate ventilation. Maintain eye-wash fountain and quick-drench facilities in work area.

**Individual Protection Measures** Avoid all unnecessary exposure.

**Eye/Face Protection** Use chemical safety goggles and /or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye-wash fountain and quick-drench facilities in work area.

**Skin Protection** Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

**Respiratory Protection** Wear appropriate mask.

**Other Information** Do not eat, drink, or smoke when using this product.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State** Solid

**Color** White

**Odor** Odorless

**Odor Threshold** Not determined

**pH** Not determined

**Melting Point/Freezing Point** 205°C/ Not determined

**Initial Boiling Point and Boiling Range** Not determined

**Flash Point** Not determined

**Evaporation Rate** Not determined

**Flammability (Solid, Gas)** Not determined

**Upper/Lower Flammability/Explosive Limits** Not determined

**Vapor Pressure** Not determined

<b>Vapor Density</b>	Not determined
<b>Relative Density</b>	Not determined
<b>Solubility</b>	Soluble
<b>Partition Coefficient: n-octanol/water</b>	Not determined
<b>Auto-Ignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Viscosity</b>	Not determined

#### SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Not determined
<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage.
<b>Possibility of Hazardous Reactions</b>	No data available
<b>Conditions to Avoid</b>	Extremely high or low temperatures. Direct sunlight.
<b>Incompatible Materials</b>	No data available
<b>Hazardous Decomposition Products</b>	No data available

#### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	Not classified
<b>Glutamic Acid (56-86-0)</b>	
<b>LD50 oral rat</b>	5,110 mg/kg
<b>LD50 dermal rat</b>	2,000 mg/kg

<b>Skin Corrosion/Irritation</b>	Not classified
<b>Serious Eye Damage/Irritation</b>	Not classified
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive Toxicity</b>	Not classified
<b>Specific Target Organ Toxicity (Single Exposure)</b>	Not classified
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	Not classified
<b>Aspiration Hazard</b>	Not classified
<b>Potential Adverse Human Health Effects and Symptoms</b>	No data available
<b>Other Information</b>	Not available

#### SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity</b>	Not applicable
<b>Persistence and Degradability</b>	Not applicable
<b>Bioaccumulative Potential</b>	Not applicable
<b>Mobility in Soil</b>	Not applicable
<b>Other Adverse Effects</b>	Not applicable

#### SECTION 13: DISPOSAL CONSIDERATIONS

**Methods of Disposal**

**Disposal Recommendations** Dispose of contents/containers in accordance with local, state and federal regulations.

**Other Information** Avoid release to the surrounding environment.

**SECTION 14: TRANSPORT INFORMATION**

**UN Number** Not applicable

**UN Shipping Name** Not applicable

**Transport Hazard Class(es)** Not applicable

**Packing Group** Not applicable

**Environmental Hazards** Not applicable

**Transport in Bulk** Not applicable

**Other Precautions** Not applicable

**SECTION 15: REGULATORY INFORMATION**

<b>Glutamic Acid (56-86-0)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**SECTION 16: OTHER INFORMATION**

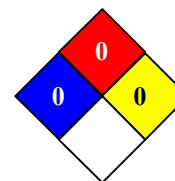
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**NFPA Hazards**

**Health Hazard** 0: Poses no health hazard.

**Fire Hazard** 0: Materials that will not burn.

**Reactivity/Instability** 0: Normally stable, even under fire exposure conditions, and are not reactive with water.



**HMIS III Rating**

**Health** 0: No significant risk to health.

**Flammability** 0: Materials that will not burn.

**Physical Hazard** 0: Materials that are normally stable.

**Personal Protection** A

G-60	
Health	0
Flammability	0
Physical Hazard	0
Personal Protection	A

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**END OF SAFETY DATA SHEET**