

Safety Data Sheet

# L- Glutamic Acid

### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: L- Glutamic Acid

Synonyms/Generic Names: Glu; (S)-2-Aminopentanedioic acid

Product Number: 5291

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc. N4335 Temkin Rd. Columbus, WI. 53925

For More Information Call: 1-920-623-2140 (Monday-Friday 8:00-4:30)

In Case of Emergency Call: CHEMTREC – 1-800-424-9300 or 1-703-527-3887 (24 Hours/Day, 7 Days/Week)

### 2. HAZARDS IDENTIFICATION

Signal Word: None

Pictograms: None

#### **GHS Classification:**

Not a dangerous substance according to GHS.

#### GHS Label Elements, including precautionary statements:

Hazard Statements:

None

#### **Precautionary Statements:**

None

#### **Potential Health Effects**

Eyes	May cause eye irritation.	
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.	
Skin	May be harmful if absorbed through skin. May cause skin irritation.	
Ingestion	May be harmful if swallowed.	

**NFPA Ratings** 

Health	1
Flammability	0
Reactivity	0
Specific hazard	Not Available

HMIS Ratings	
Health	1
Fire	0
Reactivity	0

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
L-Glutamic Acid	>98	56-86-0	200-293-7	C <sub>5</sub> H <sub>9</sub> NO <sub>4</sub>	147.13 g/mol

# 4. FIRST-AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention if necessary.	
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not	
	breathing, give artificial respiration. Get medical attention if necessary.	
Skin	Flush with plenty of water and wash using soap. Get medical attention if necessary.	
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If	
_	conscious, wash out mouth with water. Get medical attention if necessary.	

# 5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable)	Product is not flammable. Use appropriate media for adjacent fire.
extinguishing media	Cool containers with water.
Special protective equipment	Wear self-contained, approved breathing apparatus and full protective
and precautions for	clothing, including eye protection and boots.
firefighters	
Specific hazards arising from	Fine dust dispersed in air in sufficient concentration, and in the
the chemical	presence of an ignition source is a potential dust explosion hazard.
	Upon combustion will result in carbon monoxide, carbon dioxide and
	nitrogen oxide being released.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment. Make spills wet to prevent the generation of dust and then sweep up into a closed container.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

#### Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Contains no substances with occupational exposure limit values.

#### **Personal Protection**

Eyes	Wear chemical safety glasses or goggles.	
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an	
	approved respirator.	
Skin	Wear nitrile or rubber gloves, apron or lab coat.	
Other	Not Available	

#### **Other Recommendations**

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	White crystals or crystalline powder.
Odor	Odorless
Odor threshold	Not Available
рН	3.0 – 3.5 (1.0g in 100mL of H2O (saturated aqueous
	solution))
Melting point	160°C (decomposes)
Initial boiling point and boiling range	Not Available
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Flammable
Vapor pressure	Not Available
Vapor density	Not Available
Density	1.538 g/cu cm (20°C)
Solubility (ies)	0.72g/100g H <sub>2</sub> O (20°C)
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	247°C (476.6°F)

### **10. STABILITY AND REACTIVITY**

Chemical Stability	Stable under normal temperatures and pressures.
Possibility of Hazardous Reactions Nitrogen oxides (combustion).	
Conditions to Avoid	Humidity and high temperature. In presence of moisture, will oxidize and darken.
Incompatible Materials	Strong oxidizing agents

# 11. TOXICOLOGICAL INFORMATION

#### Acute Toxicity

Acute Toxicity	
Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	LD50: Oral - rat – 5.11 g/kg

### Carcinogenicity

	No components of this product present at lovels greater then or equal to 0.40/ is
IARC	No components of this product present at levels greater than or equal to 0.1% is
	identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is
	identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is
	identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is
	identified as a carcinogen or potential carcinogen by OSHA.

### Signs & Symptoms of Exposure

Skin	Irritation, redness, itchiness.	
Eyes	Irritation, redness, watering eyes, itchiness.	
Respiratory	Irritation, coughing, wheezing.	
Ingestion	Irritation, nausea, vomiting, diarrhea.	

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
<b>Respiratory/Skin Sensitization</b>	Not Available

# 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Aquatic Vertebrate	Not Available
Aquatic	Not Available
Invertebrate	
Terrestrial	Not Available

Persistence and Degradability	BOD= 0.855 g/g
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

# 13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product or residue.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in Section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

### 14. TRANSPORTATION INFORMATION

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

### **15. REGULATORY INFORMATION**

TSCA Inventory Status	All ingredients are listed on the TSCA Active inventory.	
DSL / NDSL	All ingredients are listed on the DSL inventory.	
California Proposition 65	Not Listed	
SARA 302	Not Listed	
SARA 304	Not Listed	
SARA 311	No SARA Hazards	
SARA 312	No SARA Hazards	
SARA 313	Not Listed	
WHMIS Canada	Not Listed	

### **16. OTHER INFORMATION**

Revision	Date
Created on	06/29/2020

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