

**SAFETY DATA SHEET**  
**GLUTAMIC ACID LIQUID PRODUCT**

**SDS No. 037-3**

1. PRODUCT AND SUPPLIER IDENTIFICATION		
Ingredient	CAS number	<b>Name and address of manufacturer:</b> <u>VEDAN VIETNAM ENTERPRISE CORP., LTD.</u>  National Road 51, Hamlet 1A, Phuoc Thai village, Long Thanh District, Dong Nai Province, Vietnam <b>Tel:</b> (+84)251-3825111, <b>Fax:</b> (+84)251-3825138  <b>Emergency phone number:</b> (+84)1800.599.902
See section 3	N/A	
EC number: N/A		
<b>Common name of the substance:</b> <u>Glutamic Acid liquid</u>		
<b>Trade name:</b> <u>Glutamic Acid liquid</u>		
<b>Recommended use:</b> This amino acid product can apply in many industries.		Contact address in case of emergency: <u>VEDAN VIETNAM ENTERPRISE CORP., LTD.</u> Tel: (+84)251-3825111, Emergency phone number:(+84)1800.599.902
2. HAZARDS IDENTIFICATION		
<b>a) GHS classification and information classified in accordance with available valid data provided by countries, areas or testing organizations</b>  According to Vietnamese legislation: This product possibly cause harm to humans, animals, plants, property and the environment in transport, storage and preservation condition, for appropriate and right using purpose.		
<b>b) GHS label elements</b>  For export: Labeling contents are according to legal regulations of importing countries.  <b>Precautionary statements:</b>  Perform personal hygiene after using the product. In case fertilizer gets in the eyes when using, it is recommended to use clean water to wash eyes gently. Users should wear face mask during the use of fertilizer.  <b>Storage instructions:</b>  See section 7.  <b>Recommended use:</b>  This amino acid product can apply in many industries.		
<b>c) Other hazards:</b>  No data available		

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Common name of the substance	Ingredient	CAS number	Chemical formula	Content (% by weight)
<u>Glutamic Acid</u> <u>liquid</u>	Glutamic acid	56-86-0	C <sub>5</sub> H <sub>9</sub> NO <sub>4</sub>	> 18
	Total solids	-	-	>45

### 4. FIRST-AID MEASURES

#### a) Measures relevant to the route of exposure

- Accident in case of eye exposure (splashed, touched on the eyes): Rinse out with plenty of water with the eyelid held wide open. Immediately take to eye specialist.
- Accident in case of skin exposure (touched on skin): Wash off with water/shower.
- Accident in case of respiration exposure (breathing under form of vapor, gas): Under normal conditions for use, product is not considered a hazard when inhaled.
- Accident in case of ingestion exposure (eating, drinking, swallowing): Consult doctor if feel unwell.

#### b) Most important symptoms/effects, acute and delayed

No data available.

#### c) Indication of immediate medical attention and special treatment needed

No data available.

### 5. FIRE-FIGHTING MEASURES

#### a) Suitable extinguishing media

Use of firefighting equipment must be appropriate with adjacent materials.

#### b) Toxic substances emitted from fires

It is non-flammable.

#### c) Special protective equipment and precautions for fire fighting.

Do not stay in the danger zone without suitable protection clothing and self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

#### a) Personal protective equipment and emergency procedures

Personal protective equipment: See section 8.

Emergency procedures: Prevent from spreading or entering drains, ditches or rivers by using sand, soil, or other appropriate barriers. Inform the local authorities if the spill is not controlled.

#### b) Environmental precautions

Leakage can cause pollution. Precautions should be taken to prevent from spreading or entering drains.

#### c) Methods and materials for containment and cleaning up

Take up dry. Forward for disposal. Clean up affected area.

## 7. HANDLING AND STORAGE

**a) Measures and requirements for safe handling** (e.g., ventilation, only using in closed systems, using explosion-proof electrical equipment, internal transport, etc.)

Need to equip personal protective according to item 8.

**b) Measures and requirements for safe storage** (e.g., temperature, arrangement, limits to sources of explosion and avoidance of storing some chemicals together, etc.).

- Store Glutamic Acid liquid in cool place. If it is stored in a container, do not cover tightly, avoiding increased air pressure in the container.
- Store in tanks, drums, barrels, flexitank, IBC tank, cans, covered holes and other materials suitable as per customer requirements.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**a) Control parameters** (e.g., occupational exposure limit values or biological limit values)

The product does not contain any substances that need to control limit values of occupational exposure.

**b) Appropriate engineering controls**

Protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective equipment to product should be ascertained with the respective supplier.

**c) Individual protection measures and personal protective equipment**

- Respiratory protection: Recommend to use.
- Eyes/Face protection: Wear goggles or face shield if there is a risk of splashing.
- Hand protection: Recommend to use.
- Hygiene measures: General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

a) Physical state: Liquid.	b) Boiling point (°C): No information.
c) Color: Dark brown.	d) Melting point (°C): Liquid product
đ) Particular odour: Characteristic of the product.	e) Flash point(°C): (Flash point) by determination method: No information.
g) Vapor pressure (mm Hg) at standard temperature, pressure : No information	h) Self-ignition temperature (°C): No information.
i) Gas proportion (air = 1) at standard temperature, pressure: No information.	k) Upper flammability/explosive limits(% of mixture with air): No information.
l) Solubility in water: No information.	m) Lower flammability/explosive limits (% of mixture with air): No information.
n) pH: > 6.0	o) Evaporation rate: No information.
p) Relative density (kg/m <sup>3</sup> ): No information.	k) Other property if any: No information.

## 10. PRODUCT STABILITY AND REACTIVITY

### a) Possibility of reactions

Reacts with strong oxidizing agents.

### b) Stability (heat resistance, sensitivity to the effects of friction, shock, etc.)

Stable under recommended conditions of use and preservation.

### c) Dangerous reactions (corrosion, fire, explosion...)

No hazardous reactions under normal conditions of use and storage.

### d) Conditions to avoid (Ex: electrostatic, vibration, shaking ...)

No hazardous reactions under normal conditions of use and storage.

### d) Incompatible materials

No information

### e) Decomposition reaction and products of the decomposition reaction

No information

## 11. TOXICOLOGICAL INFORMATION

### a) Information about the likely routes of exposure

- Accident in case of eyes exposure: No information.
- Accident in case of skin exposure: No information.
- Accident in case of inhalation exposure: Under normal conditions for use, this product is not considered a hazard when inhaled.
- Accident in case of ingestion exposure: No information.

### b) Symptoms related to product, toxicological and ecotoxicological characteristics

No information.

### c) Immediate, delayed and chronic effects from short-term and long-term exposure

No information.

### d) Numerical measures of toxicity (acute toxicity estimates)

No information.

## 12. ECOLOGICAL INFORMATION

a) Ecotoxicity (aquatic and terrestrial): No information.

b) Persistence and degradability: No information.

c) Bioaccumulative potential: No information.

d) Mobility in soil: No information.

d) Other adverse effects: No information.

## 13. DISPOSAL CONSIDERATIONS

<ul style="list-style-type: none"> <li>- <b>Product:</b> Observe local and national environmental regulations on disposal.</li> <li>- <b>Packaging:</b> Disposal of the packaging as applied to the product.</li> </ul>
<b>14. TRANSPORT INFORMATION</b>
<ul style="list-style-type: none"> <li>- Product is transported by clean, dry means.</li> <li>- The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).</li> </ul>
<b>15. REGULATORY INFORMATION</b>
<p><b>Shall comply with:</b></p> <p>Relevant current legal documents of the importing countries.</p>
<b>16. OTHER INFORMATION</b>
Date of compiling slip: 12/08/2020
Latest date of modification, addition: 29/05/2024
Name of compiling organization or individual: <u>VEDAN VIETNAM ENTERPRISE CORP., LTD.</u>
<p><b>Note for reader:</b></p> <p>The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.</p>