

# **MATERIAL SAFETY DATA SHEET**

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# 1- Chemical Product Information and Company Identification.

**Product Name:** : D-Glutamic acid reference standard, Anstan<sup>®</sup>.

Synonym: : H-D-Glu-OH.

Product code: : BS13959.

CAS Number: : 6893-26-1.

Company Name: : Briti Scientific.

Company Address: : Plot No:78/B/13, SY-79, Phase-VI, Jeedimetla, Hyderabad-500055.

Telangana, India.

# Section 2- Composition / Information on Ingredients.

CAS No.Chemical NameMol. Formula6893-26-1H-D-Glu-OH $C_5H_9NO_4$ .

### **Section 3- Hazards Identification.**

### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

### **Label Elements**

None required

### Hazards not otherwise classified (HNOC)

None identified

### **Section 4- First Aid Measures.**

**Eye Contact**: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.

**Skin Contact**: Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

**Inhalation**: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

**Ingestion**: Do NOT induce vomiting. Get medical attention.

Most important symptoms and effects: No information available.

Notes to Physician: Treat symptomatically.











# **Section 5- Fire Fighting Measures.**

**Suitable Extinguishing Media**: Water spray, carbon dioxide (CO2), dry chemical foam.

Unsuitable Extinguishing Media: No information available.
 Flash Point: No information available.
 Method - No information available.
 Autoignition Temperature: No information available.

**Explosion Limits:** 

Upper No data available Lower No data available

**Sensitivity to Mechanical Impact:** No information available. **Sensitivity to Static Discharge:** No information available.

### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapours.

### **Hazardous Combustion Products**

Nitrogen oxides (NOx). Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### NFPA

Health Flammability Instability Physical hazards 0 0 0 N/A

### Section 6- Accidental Release Measures.

**Personal Precautions**: Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

**Environmental Precautions:** Should not be released into the environment. See Section 12 for additional Ecological Information.

### Methods for Containment and Clean Up:

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

### Section 7- Handling and Storage.

**Handling**: Ensure adequate ventilation. Wear personal protective equipment/face protection. A void contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

**Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.











# Section 8- Exposure Control/Personal Protection.

**Exposure Guidelines**: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures**: None under normal use conditions.

**Personal Protective Equipment** 

**Eye/face Protection:** Wear appropriate protective eyeglasses or chemical safetygoggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or EuropeanStandardEN166.

**Skin and body protection:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection:** No protective equipment is needed under normal use conditions.

**Hygiene Measures:** 

Handle in accordance with good industrial hygiene and safety practice.

# Section 9- Physical and Chemical Properties.

**Appearance:** White powder to crystal.

Odour: Odourless.

Odor Threshold: No information available. pH: No information available.

Melting Point/Range: 201°C.

Boiling Point/Range:No information available.Flash Point:No information available.Evaporation Rate:No information available.

Flammability (solid,gas): Not applicable.

Flammability or explosive limits:

Upper No information available.
Lower No information available.

Vapor Pressure: No information available.

**Density:** 1.4 g/cm<sup>3</sup>.

**Solubility:** Soluble in water.

Partition coefficient; n-octanol/water: No data available.

Autoignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity: No data available.

Molecular formula:  $C_5H_9NO_4$ . Molecular Weight: 147.13 g/mol.











# Section 10-Stability and Reactivity.

Reactive Hazard: None known, based on information available.

Stability: Stable under normal conditions.

**Conditions to Avoid**: Incompatible products. Keep away from open flames, hot surfaces and sources

of ignition.

**Incompatible Materials**: Strong oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides (NOx), Thermal decomposition can lead to

release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

**Hazardous Polymerization**: Hazardous polymerization does not occur.

**Hazardous Reactions**: None under normal processing.

# **Section 11- Toxicological Information.**

**Acute Toxicity** 

**Product Information:** No acute toxicity information is available for this product.

**Component Information** 

**Toxicologically Synergistic Products:** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation: No information available.
Sensitization: No information available.
Mutagenic Effects: No information available.
Reproductive Effects: No information available.
Developmental Effects: No information available.
Teratogenicity: No information available.

STOT - single exposure None known.
STOT - repeated exposure None known.
Aspiration hazard: No information available.

**Symptoms / effects, both acute and delayed:** No information available.

Endocrine Disruptor Information: No information available.

Other Adverse Effects: The toxicological properties have not been fully investigated.

# **Section 12- Ecological Information.**

Ecotoxicity: No information available

Persistence and Degradability: Soluble in water Persistence is unlikely based on information

available.

**Bioaccumulation/ Accumulation:** No information available.

Mobility: Will likely be mobile in the environment due to its water solubility.











# **Section 13- Disposal Considerations.**

**Waste Disposal Methods**: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### **Section 14- Transport Information.**

DOT: Not regulated.TDG: Not regulated.IATA: Not regulated.IMDG/IMO: Not regulated.

# <u>Section 15- Regulatory Information</u>.

### Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

**TSCA 12(b)** - Notices of Export Not applicable.

**U.S. Federal Regulations** 

SARA 313: Not applicable.

SARA 311/312 Hazard Categories See section 2 for more information.

CWA (Clean Water Act): Not applicable.

**Clean Air Act:** Not applicable **OSHA** - Occupational Safety and

Health Administration: Not applicable.

**CERCLA:** Not applicable.

California Proposition 65: This product does not contain any Proposition 65 chemicals.

### Section 16-Other Information.

Briti Scientific provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.







