



Section 1 Identification

Product Identifier: Glucose-Glutamic Acid
Catalog Numbers: D1243, D1246
Synonyms: None
Recommended Use: For laboratory or manufacturing use only.
Restrictions on Use: Not for food, drug, or household use
Supplier Information: Environmental Express, 490 Wando Park Boulevard, Mt. Pleasant, SC 29464, Phone (800) 343-5319 or (843) 881-6560
Emergency Phone Number: (800) 424-9300

Section 2 Hazard Identification

Classification: Not hazardous by 29 CFR 1910.1200.

Hazards Not Otherwise Classified: None

Section 3 Composition/Information on Ingredients

CAS#	Chemical Identity	Percent
50-99-7	Glucose	0.015
56-86-0	L-Glutamic acid	0.015
7732-18-5	Water	99.97

Section 4 First Aid Measures

If in eyes: Flush eyes with plenty of water for 15 minutes. Get medical aid if irritation develops.
If on skin: Flush skin with plenty of water for 15 minutes. Get medical aid if irritation develops.
If inhaled: Move victim to fresh air. Get medical aid if irritation develops.
If swallowed: Do not induce vomiting. Get medical aid if irritation develops.
Notes to Physician: Treat symptomatically and supportively.
Important Symptoms and Effects: None expected

Section 5 Fire-fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Suitable Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.
Hazardous Combustion Products: Nitrogen oxides, carbon monoxide, carbon dioxide
Special Protective Equipment: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
NFPA Rating: Health: 0, Flammability: 0, Instability: 0

Section 6 Accidental Release Measures

Personal Protective Equipment: Use proper personal protective equipment as indicated in Section 8.
Emergency Procedures: No special procedures are necessary.
Environmental Precautions: Do not let this chemical enter the environment.
Methods and Materials for Containment and Cleanup: Absorb spill with inert material such as sand, vermiculite, or diatomaceous earth, and transfer to a suitable container labeled for later disposal.



Section 7 Handling and Storage

Precautions for Safe Handling: Wash thoroughly after handling. Avoid ingestion and inhalation. Avoid contact with eyes.

Conditions for Safe Storage: Store tightly capped in a cool, dry, well-ventilated area away from incompatible materials.

Section 8 Exposure Controls/Personal Protection

Occupational Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Glucose	None	None	None
Glutamic Acid	None	None	None
Water	None	None	None

Engineering Controls: Facilities using or storing this material should be equipped with an eyewash and safety shower.

Personal Protective Equipment:

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Do not wear contact lenses when working with chemicals.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Odor	Colorless
Odor Threshold	Odorless
pH	5-7
Melting Point/Freezing Point	Not available
Initial Boiling Point and Boiling Range	Not available
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability	Not applicable
Upper Explosive Limit	Not applicable
Lower Explosive Limit	Not applicable
Vapor Pressure	Not available
Vapor Density	Not available
Relative Density	1.0
Solubility	Soluble in water
Partition Coefficient: n-Octanol/Water	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not available
Molecular Formula	Not available
Molecular Weight	Not available

Section 10 Stability and Reactivity

Reactivity: Not self-reactive.

Chemical Stability: Stable under normal temperatures and pressures.



Possibility of Hazardous Reactions: Not available

Conditions to Avoid: Incompatible materials, excess heat.

Incompatible Materials: None

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides.

Section 11 Toxicological Information

Likely Routes of Exposure: Eyes, Skin

Potential Health Effects:

Eyes: May cause mild eye irritation.

Skin: Not likely to cause skin irritation.

Ingestion: Not likely to cause gastrointestinal irritation or other harm.

Inhalation: Not likely to cause respiratory irritation.

Chronic: None

RTECS: CAS# 7732-18-5: ZC0110000.

CAS# 50-99-7: LZ6600000.

CAS# 56-86-0: LZ9700000.

Corrosion/Irritation: May cause mild eye irritation.

Sensitization: Not applicable

Reproductive Toxicity: Not applicable

Germ Cell Mutagenicity: Not applicable

Single Target Organ Toxicity:

Single Exposure: Not applicable

Repeated Exposure: Not applicable

Aspiration Hazard: Not applicable

Acute Toxicity:

Chemical	Oral LD50	Dermal LD50	Inhalation LC50
Glucose	25800 mg/kg	Not available	Not available
Glutamic Acid	Not available	Not available	Not available
Water	>90000 mg/kg	Not available	Not available

California Proposition 65

Chemical	Cancer Hazard	Developmental Hazard	Male Reproductive Toxicity	Female Reproductive Toxicity
Glucose	Not listed	Not listed	Not listed	Not listed
Glutamic Acid	Not listed	Not listed	Not listed	Not listed
Water	Not listed	Not listed	Not listed	Not listed

Carcinogen Listing

Chemical	ACGIH	IARC	NTP	OSHA
Glucose	Not listed	Not listed	Not listed	Not listed
Glutamic Acid	Not listed	Not listed	Not listed	Not listed
Water	Not listed	Not listed	Not listed	Not listed

Section 12 Ecological Information

Ecotoxicity: Not available

Persistence and Degradability: Not available

Bioaccumulative Potential: Not available



Mobility in Soil: Not available

Other Adverse Effects: Not available

Section 13 Disposal Considerations

Dispose of contents/container in accordance with all applicable federal, state, and local regulations.

Section 14 Transport Information

US DOT: Not hazardous for transport

Marine Pollutant: No

Section 15 Regulatory Information

Chemical	TSCA	SARA RQ	SARA 313	OSHA	DSL	Ingredient Disclosure List
Glucose	Listed	None	Not listed	Not listed	Listed	Not listed
Glutamic Acid	Listed	None	Not listed	Not listed	Listed	Not listed
Water	Listed	None	Not listed	Not listed	Listed	Not listed

State Right-to-Know: None of the components are listed.

WHMIS Classification: Noncontrolled.

Section 16 Other Information

Creation Date: 11/15/98

Revision Date: 01/10/13

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