

## Safety Data Sheet

Revision Date: 22-June-2016

24 Hour Emergency #: 1-800-255-3924

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: SDS Protein Gel Loading Solution (5X)  
 CATALOG NUMBER: 351-334-021  
 CHEMICAL NAME: An aqueous solution of Bromphenol blue, Tris base, SDS, Glycerol and sufficient Hydrochloric acid.

#### Company/Undertaking Identification

Quality Biological Inc.  
 7581 Lindbergh Drive  
 Gaithersburg, MD 20879  
 301-840-9331

### 2. HAZARDS IDENTIFICATION

#### GHS – Classification

Classification

Skin Irritant 2 Eye Irritant 2

Signal Word

Warning



#### Hazard Statements

H315 - Causes skin irritation H319 - Causes serious eye irritation H335 – May cause respiratory irritation

#### Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Glycerol	200-289-5	Not available	56-81-5	50.0	-

### 4. FIRST AID MEASURES

## SDS Protein Gel Loading Solution (5X)

<b>Skin contact</b>	Immediately wash skin with copious amounts of water followed by washing with soap and copious amounts of water. Remove all contaminated clothing.
<b>Eye contact</b>	Flush eyes with copious amounts of water for at least 15 minutes with eyelids separated and call a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person
<b>Inhalation</b>	If person is unconscious seek emergency medical attention, if person is conscious remove to fresh air and call a physician
<b>Notes to physician</b>	Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**General:** Wear Self-Contained breathing apparatus in pressure demand, MSHA/NIOSH approved. During a fire, irritating and toxic gases may be generated by thermal decomposition.

**Extinguishing Media:** Use extinguishing media appropriate to surrounding fire conditions..

**Autoignition Temperature:** N/A

**Explosion limits:** Not sensitive.

**Flash Point:** Not flammable.

## 6. ACCIDENTAL RELEASE MEASURES

**Use Personal Protective Equipment:** Including Chemical Splash Goggles, Chemical Resistant Gloves, and appropriate clothing to prevent skin exposure. In addition, a Respiratory protection program that complies with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

**Spills and Leaks:** Absorb spill with inert material (e.g. Vermiculite, sand, earth) then place in a suitable container. Clean up spills immediately, observing precautions in the Sections 6 and 8. Provide ventilation.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational exposure controls

#### Exposure limits

<b>Engineering measures</b>	Ensure adequate ventilation, especially in confined areas
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#### Personal protective equipment

<b>Respiratory protection</b>	In case of insufficient ventilation wear suitable respiratory equipment
<b>Hand protection</b>	Protective gloves
<b>Eye protection</b>	Safety glasses with side-shields
<b>Skin and body protection</b>	Lightweight protective clothing.

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## SDS Protein Gel Loading Solution (5X)

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure**

**Controls**

Prevent product from entering drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

**Form**

Liquid

### Important Health Safety and Environmental Information

**Boiling point/range**

°C No data available

°F No data available

**Melting point/range**

°C No data available

°F No data available

**Flash point**

°C No data available

°F No data available

**Autoignition temperature**

°C No data available

°F No data available

**Oxidizing properties**

No information available

**Water solubility**

No data available

## 10. STABILITY AND REACTIVITY

**Stability**

Stable under recommended storage conditions.

**Materials to avoid**

No information available

**Hazardous decomposition products**

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

**Polymerization**

Hazardous polymerisation does not occur.

**Incompatible Products**

Strong oxidizing agents.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Irritating to eye, skin and respiratory system. May be harmful if swallowed.

### Principle Routes of Exposure/ Potential Health effects

**Eyes**

No information available

**Skin**

No information available

**Inhalation**

No information available

**Ingestion**

No information available

### Specific effects

**Carcinogenic effects**

No information available

**Mutagenic effects**

No information available

**Reproductive toxicity**

No information available

**Sensitization**

No information available

### Target Organ Effects

None known.

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Glycerol		LC50 51 - 57 mL/L Oncorhynchus mykiss 96 h		EC50 > 500 mg/L 24 h

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

## 14. TRANSPORT INFORMATION

### IATA

Proper shipping name	Not classified as dangerous in the meaning of transport regulations
Hazard Class	No information available
Subsidiary Class	No information available
Packing group	No information available
UN-No	No information available

## 15. REGULATORY INFORMATION

### International Inventories

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Glycerol	56-81-5			Group II		

**U.S. State Regulations****California Proposition 65**

This product does not contain chemicals listed under Proposition 65

**WHMIS hazard class:**

D2B Toxic materials

**16. OTHER INFORMATION**

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

**THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT; HOWEVER, IT MAY NOT BE ALL INCLUSIVE. THIS INFORMATION SHOULD BE USED ONLY AS A GUIDE. QUALITY BIOLOGICAL, INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM THE HANDLING OR CONTACT WITH THE ABOVE PRODUCT.**

**End of Safety Data Sheet**