



# MATERIAL SAFETY DATA SHEET

Company	ELPIS-Biotech. Inc.
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## SECTION 1. CHEMICAL INFORMATION

Product name	Brilliant Blue R 250 Protein Staining Solution
Cat. No.	EBP-1011
Volume of product package:	1 L

**Product Use** : Laboratory Reagent. For R&D use only. Not for drug, household or other uses.

### Manufacturer/ Supplier information

Supply company : ELPIS-Biotech. Inc.  
Address : 123-12 Jeonglim-dong, Seo-gu, Daejeon, Korea  
Information service or emergency call : +82-42-581-8448 (042-581-8448, Korea)  
Department in charge : Research Department

## SECTION 2. HAZARDOUS IDENTIFICATION



### Potential Acute Health Effects:

Hazardous in case of eye contact (irritant), of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation.

### Potential Chronic Health Effects:

Hazardous in case of eye contact (irritant), of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation. Carcinogenic effects: Not available. Mutagenic effects: Not available. Teratogenic effects: Not available. Developmental toxicity: Not available.

**Toxicological Data on Ingredients:** Brilliant blue R-250 LD50: Not available. LC50: Not available.

Toxicological Data on Ingredients: Methyl alcohol, Absolute: ORAL (LD50): Acute: 5628 mg/kg [Rat]. DERMAL (LD50): Acute: 15800 mg/kg [Rabbit]. VAPOR (LC50): Acute: 64000 ppm 4 hours [Rat].

Toxicological Data on Ingredients: Acetic acid: ORAL (LD50): Acute: 3310 mg/kg [Rat]. 4960 mg/kg [Mouse]. 3530 mg/kg [Rat]. DERMAL (LD50): Acute: 1060 mg/kg [Rabbit]. VAPOR (LC50): Acute: 5620 ppm 1 hours [Mouse].

### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Buffer's Components in Water:

Reagent	CAS#	Concentration, %
Brilliant blue R-250	6104-59-2	< 0.1
Water	7732-18-5	
Methanol	67-56-1	< 45
Acetic acid (glacial)	64-19-7	< 0.1

### SECTION 4. FIRST AID MEASURES

#### After skin contact

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

#### After eye contact

Rinse opened eyes for several minutes under running water. Get medical attention if eyes become irritating.

#### After swallowing (ingestion)

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

#### After inhalation

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

### SECTION 5. FIRE FIGHTING MEASURES

**Flammability of the Product :** May be combustible at high temperature

**Flash Points:** Not available

**Flammable Limits:** Not available.

#### Products of Combustion

These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...), sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub>...).

**Fire Hazards in Presence of Various Substances:** Not available

#### Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

#### Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Prevent contact with skin and eyes.**

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Not required.

### **Environmental precautions**

Do not allow entering sewers, surfaces or ground water.

### **Measures for cleaning / collecting**

Collect spilled liquid with liquid-binding material or inert absorbent and place it in container for disposal. Wash spill site after material pickup is complete.

## **SECTION 7. HANDLING AND STORAGE**

### **Handling**

No special measures necessary. Good laboratory technique should be used when handling.

### **Storage**

No special measures necessary. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### **Personal Protection:**

Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### **Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Liquid.
<b>Color</b>	Blue
<b>Odor</b>	Odorless.
<b>Flash point</b>	> 392 F, > 200° C
<b>Explosive properties</b>	No data available.
<b>Vapor pressure</b>	< 1 MMHG @ 20°C

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

<b>Stability</b>	Stable.
<b>Hazardous polymerization</b>	Will not occur
<b>Materials to Avoid</b>	Strong oxidizing agents, strong bases.
<b>Hazardous Decomposition Products:</b>	Carbon Monoxide, Carbon Dioxide
<b>Protect from heat</b>	

## SECTION 11. TOXICOLOGICAL INFORMATION

**Eye Contact:** Irritating to eyes

**Skin Contact** Irritating to skin.

**Multiple Routes** May be harmful by inhalation, ingestion, or skin absorption

Materials may be irritating to mucous membranes and upper respiratory tract.

Preparations may cause allergic reactions in certain sensitive individuals.

**Toxicity to Animals:** LD50: Not available. LC50: Not available.

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:**

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Not available.

## SECTION 12. ECOLOGICAL INFORMATION

Data not yet available

## SECTION 13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material.

Observe all federal, state and local environmental regulations

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## SECTION 14. TRANSPORT INFORMATION

Contact ELPIS Biotech, Inc. Company for Transportation Information.

## SECTION 15. REGULATORY INFORMATION

**Federal and State Regulations:** TSCA 8(b) inventory: Coomassie Brilliant blue R-250

Other Regulations: Not available.

**Other Classifications:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

DSCL (EEC): R36- Irritating to eyes.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

**National Fire Protection Association (U.S.A.):**

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard:

## **SECTION 16. OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

ELPIS Biotech Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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