



# MATERIAL SAFETY DATA SHEET

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

Product name 50x ROX Reference Dye  
Cat. No. EBT-1821  
Volume of product package: 1,000ul.

**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**

The product contains no substances which at their given concentration, are considered to be hazardous to health

May be harmful if swallowed  
May be harmful by inhalation  
May cause eye irritation with susceptible persons

### **Acute toxicity**

<b>Eye Contact:</b>	May cause eye irritation with susceptible persons
<b>Skin Contact</b>	No information available
<b>Inhalation</b>	May be harmful by inhalation.
<b>Ingestion</b>	May be harmful if swallowed.

### **Long Term Effects**

Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive toxicity	No information available
Sensitization	No information available

### **Target Organs**

No information available

### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Buffer's Components in Water:

Reagent	CAS#	EC 번호	Concentration, %
Hydrogen 9-(2,4-disulphonato phenyl) -2,3,6,7,12,13,16,17-octahydro-1H5H,11H15H-xantheno [2,3,4-ij:5,6,7-i']diquinolizin-18-ium	60311-02-6	262-159-4	0.02%
5-Chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	247-500-7	0.03%
2-Methyl-2H-isothiazol-3-one	2682-20-4	220-239-6	0.12%
Water	7732-18-5	231-791-2	99.00%

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

### SECTION 4. FIRST AID MEASURES

#### After inhalation

Move to fresh air. If symptoms persist, call a physician.

#### After skin contact

Wash off immediately with plenty of water. If symptoms persist, call a physician.

#### After eye contact

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

#### After swallowing (ingestion)

Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

### SECTION 5. FIRE FIGHTING MEASURES

#### Extinguishing media

Water spray, Carbon dioxide, dry chemical powder or appropriate foam.

#### Special firefighting procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### Unusual fire and explosions hazards

Emit toxic fumes under fire conditions

#### Prevent contact with skin and eyes.

Flash Point : N/A

Flammability : N/A

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment

### 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 handling advice required

**Storage :** Keep in properly labelled containers

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION □

**Engineering controls :** safety shower and eye bath. Mechanical exhaust required.

### Personal Protective equipment :

**Respiratory Protection** In case of insufficient ventilation wear suitable respiratory equipment

**Hand protection** Protective gloves

**Eye protection** Safety glasses with side-shields

**Skin and body protection** Lightweight protective clothing.

**General Hygiene Measures :** Wash thoroughly after handling.

Wash contaminated clothing before use.

Keep tightly closed. Store in a cool dry place. Freeze. Store at -20°C.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Liquid.
<b>Color</b>	Pink color
<b>Odor</b>	Odorless.
<b>Melting point</b>	20° C
<b>Boiling point</b>	182° C
<b>Flash point</b>	> 392 F, > 200° C
<b>Explosive properties</b>	No data available.
<b>Vapor pressure</b>	< 1 MMHG @ 20°C
<b>Water solubility</b>	Extremely soluble in water.

## 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 and moisture</b>	

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

<b>Eye Contact:</b>	May cause eye irritation with susceptible persons
<b>Skin Contact</b>	No information available
<b>Inhalation</b>	May be harmful by inhalation.
<b>Ingestion</b>	May be harmful if swallowed.

### Long Term Effects

Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive toxicity	No information available
Sensitization	No information available

### Target Organs

No information 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

### International Inventories

### U.S. Federal Regulations

SARA 313

This product is not regulated by SARA.

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

This product does not contain HAPs.

### U.S. State Regulations

California Proposition required by the CPR.

This product does not contain chemicals listed under Proposition 65

### WHMIS hazard class:

Non-controlled

## **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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