

**1. PRODUCT AND COMPANY IDENTIFICATION****Product identifiers**

Product name                      BrightDye® Terminator Cycle Sequencing Kit

Cat #                                      BDT3-24, BDT3-100, BDT3-200, BDT3-300, BDT3-400  
For Research Use Only. Not for use in diagnostic procedures**Details of the supplier of the safety data sheet**Company                                  Molecular Cloning Laboratories (MCLAB)  
320 Harbor Way  
South San Francisco  
CA 94080                                  USA

Telephone                                1-650-871-8771

Fax    1-650-871-8796

**Emergency telephone number**

Emergency Phone #                  1-650-871-8771

**2. HAZARDS IDENTIFICATION****GHS - Classification****Signal Word**

WARNING

**Health Hazard**

Skin Corrosion/Irritation: Category 3

**Physical Hazards**

not hazardous

**Hazard statements**

H316 - Causes mild skin irritation

**Precautionary statements**

P332 + P313 - If skin irritation occurs: Get medical advice/attention

**Principle Routes of Exposure/****Potential Health effects**

Eyes                                        May cause eye irritation with susceptible persons.

Skin                                         May cause skin irritation in susceptible persons.

Inhalation                                May be harmful by inhalation.

Ingestion                                 May be harmful if swallowed.

**Specific effects**

Carcinogenic effects                  none

Mutagenic effects                      none

Reproductive toxicity none

Sensitization none

**Target Organ Effects:** None under normal use conditions

**HMIS**

Health 1

Flammability 0

Reactivity 0

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	EINECS-No	Weight %
TRIS Base	77-86-1	201-064-4	1-5
Glycerol	56-81-5	200-289-5	10-30

**4. FIRST AID MEASURES**

Skin contact Rinse with plenty of water. If symptoms arise, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Ingestion Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.

Inhalation Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

Notes to physician Treat symptomatically.

**5. FIREFIGHTING MEASURES**

**Suitable extinguishing media** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

**Special protective equipment for firefighters** Wear self-contained breathing apparatus and protective suit.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions** Use personal protection equipment.

**Methods for cleaning up** Soak up with inert absorbent material.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**7. HANDLING AND STORAGE**

**Handling** Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

**Storage** Keep in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
TRIS Base	none	none	none	none
Glycerol	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	none	10 mg/m <sup>3</sup>	none

**Engineering measures:** Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Impervious gloves.

Eye protection Safety glasses with side-shields.

Skin and body protection. Lightweight protective clothing.

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

<b>Form</b>	Liquid	
<b>Appearance</b>	No information available	
<b>Odor</b>	No information available	
<b>Boiling point / boiling range</b>	°C No data available	°F No data available
<b>Melting point / melting range</b>	°C No data available	°F No data available
<b>flash point</b>	°C No data available	°F No data available
<b>Autoignition Temperature</b>	°C No data available	°F No data available
<b>Oxidizing properties</b>	No information available	
<b>Water solubility</b>	soluble	

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Materials to avoid</b>	No dangerous reaction known under conditions of normal use.
<b>Hazardous decomposition products</b>	None under normal use conditions.
<b>polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
TRIS Base	= 5900 mg/kg (Rat)	no data available	no data available
Glycerol	= 12600 mg/kg Oral	no data available	no data available

### Principle Routes of Exposure

#### Potential Health Effects

<b>eyes</b>	May cause eye irritation with susceptible persons
<b>Skin</b>	May cause skin irritation in susceptible persons
<b>inhalation</b>	May be harmful by inhalation
<b>Ingestion</b>	May be harmful if swallowed
<b>Carcinogenic effects</b>	None
<b>Mutagenic effects</b>	None
<b>Reproductive toxicity</b>	None
<b>Sensitization</b>	None
<b>Target Organ Effects</b>	No known effects under normal use conditions

## 12. ECOLOGICAL INFORMATION

Ecotoxicity effects	Daphnia magna (Water flea)
Acute aquatic toxicity	Not classified for acute
Chronic aquatic toxicity	Not classified chronic
Mobility	see log Pow
Biodegradation	Inherently biodegradable
Bioaccumulation	Does not bioaccumulate.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Glycerol 56-81-5		Daphnia magna EC50>500 mg/L (24 h)			logPow-1.76

## 13. DISPOSAL CONSIDERATIONS

Dispose of contents/containers in accordance with local regulations.

## 14. TRANSPORT INFORMATION

### IATA

<b>Proper shipping name</b>	No dangerous good in sense of these transport regulations.
<b>Hazard Class</b>	None
<b>Subsidiary class</b>	None
<b>Packing group</b>	None
<b>UN-No</b>	None

## 15. REGULATORY INFORMATION

Component	TSCA
TRIS Base 77-86-1 ( 1-5 )	Listed
Glycerol 56-81-5 ( 10-30 )	Listed

### 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 contains HAPs.

### U.S. State Regulations

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
TRIS Base	-	-	-	-	-
Glycerol	Listed	-	Listed	-	Listed

### California Proposition 65

This product does not contain chemicals listed under Proposition 65

### WHMIS Hazard Class

D2B Toxic materials

## 16. OTHER INFORMATION

**Reason for revision** SDS sections updated.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"