Material Safety Data Sheet

Version 1.0
Revision Date: 06/25/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Hairpin DNA & GC Rich Sequencing Premix for BigDye® 3.1
Cat #	BDP-100
	For Research Use Only. Not for use in diagnostic procedures

Details of the supplier of the safety data sheet

Company	Molecular Cloning Laboratories (MCLAB)
	384 Oyster Point Blvd, Suite 15
	South San Francisco
	CA 94080 USA
Telephone	1-650-872-0245
Fax	1-650-872-0253

Emergency telephone number

Emergency Phone #	1-650-872-0245

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_2). 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 reccommended 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^3 5 mg/m^3	none	10 mg/m^3	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

Form	Liquid	
Appearance	No information available	
Odor	No information available	
Boiling point / boiling range	**°C** No data available	**°F** No data available
Melting point / melting 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	soluble	

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Materials to avoid	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	None under normal use conditions.
polymerization	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

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
Carcinogenic effects	None
Mutagenic effects	None
Reproductive toxicity	None
Sensitization	None
Target Organ Effects	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

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

End of MSDS