

### Product and Company Identification

Product name           BDX64 (Dye Enhancing Buffer)

Cat #                    BDX-100, BDX-OEM

Product Use:           For Research Use Only. Not for use in diagnostic procedures

Company:                Molecular Cloning Laboratories (MCLAB)  
                              320 Harbor Way  
                              South San Francisco  
                              CA 94080

Telephone:             888-MCLAB-88  
                              650-871-8771

Fax:                     650-871-8796

### Composition/Information on Ingredients

**General Information:** The product contains: Buffer solution.  
The components are not hazardous or are below required disclosure limits.

### Hazards Identification

#### Emergency Overview

**Physical State:** Liquid

**Color:** No data available.

**Odor:** No data available. Low hazard for usual industrial or commercial handling by trained personnel.

#### Potential Health Effects

**Inhalation:** Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

**Eye Contact:** Direct contact with eyes may cause temporary irritation.

**Skin Contact:** Prolonged contact may cause dryness of the skin.

**Ingestion:** Under normal conditions of intended use, this material does not pose a risk to health. However, ingestion may cause irritation and malaise.

**Chronic Health Effects:** No other specific acute or chronic health impact noted.

**Potential Physical / Chemical Effects:** This product is not flammable.

**OSHA Regulatory Status:** This product is not hazardous according to OSHA 29CFR 1910.1200.

**Environment:** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### *First Aid Measures*

**Inhalation:** No specific first aid measures noted.

**Eye Contact:** Rinse the eye with water immediately.

**Skin Contact:** Rinse with water.

**Ingestion:** Rinse mouth thoroughly. Large quantities: Get medical attention if irritation develops and persists.

### *Fire-Fighting Measures*

**Extinguishing Media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable Extinguishing Media:** Not applicable.

**Special Fire Fighting Procedures:** No specific fire fighting procedure given.

**Unusual Fire & Explosion Hazards:** None known.

**Hazardous Combustion Products:** Carbon Dioxide, Carbon Monoxide, Chloride dioxide, Sodium

**Oxide**

**Protective Measures:** Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

**Flammability Class:** NFPA Rating Fire = 1.

### *Accidental Release Measures*

**Personal Precautions:** No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the MSDS for additional personal protection advice when handling this product.

**Spill Cleanup Methods:** Absorb spillage with suitable absorbent material. For waste disposal, see section 13 of the MSDS.

**Notification Procedures:** Inform authorities if large amounts are involved.

### *Handling And Storage*

#### **Handling:**

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist.

#### **Storage:**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

### *Exposure Controls/Personal Protection*

**Exposure Limits:** No exposure limits noted for ingredient(s) on ACGIH, OSHA and WEEL lists. Consult Canadian Provincial Regulations and/or Mexican Regulations on exposure limits, if applicable.

**Engineering Controls:** No particular ventilation requirements.

**Respiratory Protection:** No specific recommendations.

**Eye Protection:** Risk of splashes: Wear approved safety goggles.

**Hand Protection:** Wear protective gloves. Suitable gloves can be recommended by the glove supplier.

**Skin Protection:** Risk of splashes: Use skin protection.

**Hygiene Measures:** Wash hands after handling.

### *Physical And Chemical Peoperties*

**Color:** No data available.

**Odor:** No data available.

**Odor Threshold:** No data available.

**Physical State:** Liquid

**pH:** 7.5

**Melting Point:** No data available.

**Freezing Point:** No data available.

**Boiling Point:** No data available.

**Flash Point:** No data available.

**Evaporation Rate:** No data available.

**Flammability Limit - Upper (%):** No data available.

**Flammability Limit - Lower (%):** No data available.

**Vapor Pressure:** No data available.

**Vapor Density (Air=1):** No data available.

**Specific Gravity:** No data available.

**Solubility in Water:** Soluble

**Solubility (Other):** No data available.

**Partition Coefficient (n-Octanol/water):** No data available.

**Autoignition Temperature:** No data available.

**Decomposition Temperature:** No data available.

**Viscosity:** No data available.

### *Stability And Reactivity*

**Stability:** This product is stable under expected conditions of use.

**Conditions to Avoid:** None in particular.

**Incompatible Materials:** None in particular.

**Hazardous Decomposition Products:**

At Elevated Temperatures: Carbon Dioxide, Carbon Monoxide, Chloride dioxide, Sodium Oxide

### *Toxicological Information*

**Listed Carcinogens:** None.

#### **Product Information**

**Acute Toxicity:** None known.

**Chronic Toxicity:** No data available.

### *Ecological Information*

**Ecotoxicity:** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Mobility:** The product is water soluble and may spread in water systems.

**Persistence and Degradability:** No data available.

**Bioaccumulation Potential:** No data available.

### *Disposal Considerations*

**General Information:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal Methods:** No specific disposal method required.

**Container:** Since emptied containers retain product residue, follow label warnings even after container is emptied.

### *Transport Information*

**DOT** Non hazardous for transport.

**TDG** Non hazardous for transport.

**IATA** Non hazardous for transport.

**IMDG** Non hazardous for transport.

### *Regulatory Information*

**Canadian Controlled Products Regulations:** This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

**WHMIS Classification:** This is not a WHMIS controlled product.

**Mexican Dangerous Statement:** This product is not dangerous according to Mexican regulations.

**Inventory Status:** US TSCA inventory Status: All the components of this substance are listed on or are exempt from the inventory. For purposes of 40 CFR 720.36, this product is for Research and Development (R&D) Use Only.

#### **US Regulations**

**CERCLA Hazardous Substance List (40 CFR 302.4):** Not regulated.

### **SARA Title III**

Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): Not regulated.

Section 311/312 (40 CFR 370):

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

Section 313 Toxic Release Inventory (40 CFR 372): Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):  
Not regulated.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): Not regulated.

Drug Enforcement Act: Not regulated.

TSCA:

TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated.

TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40CFR 721, Subpt. E): Not regulated.

TSCA Section 5(e) PMN-Substance Consent Orders: Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

### **State Regulations**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

Massachusetts Right-To-Know List: Not regulated.

Michigan Critical Materials List (Michigan Natural Resources and Environmental  
Protection Act

(Act. 451 of 1994)): Not regulated.

Minnesota Hazardous Substances List: Not regulated.

New Jersey Right-To-Know List: Not regulated.

Pennsylvania Right-To-Know List: Not regulated.

Rhode Island Right-To-Know List: Not regulated.

### *Other Information*

#### **HAZARD RATINGS**

Health Hazard Fire Hazard Instability Special Hazard

#### **NFPA 0 1 0 --**

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

NFPA Label colored diamond code: Blue - Health; Red - Flammability; Yellow - Instability; White - Special Hazards

Health Hazard Flammability Physical Hazard Personal Protection

#### **HMIS 0 1 0 B**

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Personal Protection codes: B - Safety Glasses, Gloves

HMIS Label colored bar code: Blue - Health; Red - Flammability; Orange - Physical Hazards; White - Special

**Disclaimer:** This MSDS has been prepared using information from sources considered technically reliable. It should not be relied upon as a product specification. The company makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other chemical substances. Every user of the product is responsible for evaluating its own processes and conditions of use and selecting appropriate protective measures for employee exposure.

End of MSDS