

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

### A. PRODUCT IDENTIFIERS

PRODUCT NAME : **DNA Ligation Buffer**  
 PRODUCT NUMBER : **100264, 100582**  
 SYNONYMS : **N/A**

### B. DETAILS OF SUPPLIER OF THE SAFETY DATA SHEET

COMPANY **Twist Bioscience**  
**455 Mission Bay Boulevard South**  
**San Francisco, CA 94158**

TELEPHONE : **(415) 216-8966**  
 EMERGENCY PHONE # : **In the event of chemical emergencies: Contact CHEMTREC 24 Hour Emergency Telephone:  
 In US: 1-800-424-9300; International number (Outside the US): +1-703-741-5970**

### C. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE

**For research and development purposes only**

## SECTION 2: HAZARD IDENTIFICATION

**THIS PRODUCT IS CONSIDERED HAZARDOUS.**

GHS CLASSIFICATION: Category 3 (Respiratory system)



GHS LABEL ELEMENT:

SIGNAL WORD: Warning

HAZARD STATEMENTS: H335 May cause respiratory irritation.

We strongly recommend using prudent laboratory practices: avoiding unnecessary contact and use of personal protective equipment, which may include gloves, eye protection, face protection and lab coats, during the use of any laboratory reagent. Twist Bioscience shall not be held liable for any damages resulting from handling or from contact with the above product.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### HAZARDOUS INGREDIENTS

| Chemical Name                   | CAS No.    | Concentration [%] |
|---------------------------------|------------|-------------------|
| PEG                             | 25322-68-3 | >= 30 - < 50      |
| Magnesium chloride, hexahydrate | 7791-18-6  | >= 1 - < 5        |

### Supplier Information:

Twist Bioscience  
 455 Mission Bay Boulevard South, San Francisco, CA 94158  
 Email: customersupport@twistbioscience.com  
 Phone: 1-415-216-8966

### Other Information:

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## SECTION 4: FIRST AID MEASURES

|                    |  |
|--------------------|--|
| SKIN CONTACT:      | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. |
| EYE CONTACT:       | Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.          |
| INGESTION:         | If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person. |
| INHALATION:        | Remove from exposure area to fresh air immediately. Get medical attention immediately.   |
| INJECTION:         | If accidentally injected, get medical attention.   |
| NOTE TO PHYSICIAN: | There is no specific antidote. Treat symptomatically and supportively as needed.   |

## SECTION 5: FIRE FIGHTING MEASURES

|                            |   |
|----------------------------|---|
| Fire and Explosion Hazard: | Exposure to decomposition products may be a hazard to health. In the event of fire and/or explosion do not breathe fumes.   |
| Fire Extinguishing Media:  | Water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Warning: Take precaution not to aerosolize the powder, where it could become an inhalation risk. |

## SECTION 6: ACCIDENTAL RELEASE MEASURES

|                           |   |
|---------------------------|---|
| OCCUPATIONAL SPILL:       | Wear appropriate protective clothing, safety glasses and chemically compatible gloves. Do not flush into surface water or sanitary sewer system. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Place contaminated material spillage in appropriate closed container. Wash contaminated clothing before reuse. Avoid breathing dust/ fume/ gas/ mist/ vapor/ spray. |
| REPORTABLE QUANTITY (RQ): | Not Applicable  |

## SECTION 7: HANDLING AND STORING

Observe all federal, state and local regulations. Do not breathe dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep tightly closed. Store at -20 °C. Use good laboratory practices for handling and storage of chemical substances of unknown toxicity.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

|                    |   |
|--------------------|---|
| EXPOSURE CONTROLS: | Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use good laboratory practices for handling chemical substances of unknown toxicity. |
| EYE PROTECTION:    | Wear safety goggles to prevent eye contact with this substance.   |
| CLOTHING:          | Wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.  |
| GLOVES:            | Wear appropriate protective gloves must be worn to prevent contact with this material.  |

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# Material Safety Data Sheet

MSDS-001005

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|                      |                                 |
|----------------------|---------------------------------|
| DESCRIPTION:         | Clear, odorless liquid          |
| PH:                  | 7.6, (20 - 22°C)                |
| DENSITY:             | ca. 1 g/cm <sup>3</sup> (25 °C) |
| BOILING POINT/RANGE: | ca. 100 °C                      |
| WATER SOLUBILITY:    | Soluble                         |

## SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

|                        |               |
|------------------------|---------------|
| ACUTE ORAL TOXICITY:   | Not Available |
| ACUTE DERMAL TOXICITY: | Not Available |
| CARCINOGEN STATUS:     | Not Available |

## SECTION 12: ECOLOGICAL INFORMATION

|                                    |                   |
|------------------------------------|-------------------|
| ENVIRONMENTAL IMPACT RATING (0-4): | No data available |
| ACUTE AQUATIC TOXICITY:            | No data available |
| DEGRADABILITY:                     | No data available |
| LOG BIOCONCENTRATION FACTOR (BCF): | No data available |

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental control regulations.

## SECTION 14: TRANSPORT INFORMATION

Ship as non-regulated material, no transportation restrictions apply

## SECTION 15: REGULATORY INFORMATION

The toxicological properties of this material have not been investigated. For research and development purposes only.

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## SECTION 16: OTHER INFORMATION

### POTENTIAL HEALTH EFFECTS:

|               |  |
|---------------|--|
| SKIN CONTACT: | Short Term Exposure: Possible Irritant<br>Long Term Exposure No information available        |
| EYE CONTACT:  | Short Term Exposure: Possible Irritant<br>Long Term Exposure No information available        |
| INGESTION:    | Short Term Exposure: Possible Irritant<br>Long Term Exposure No information available        |
| INHALATION:   | Short Term Exposure: Possible Irritant<br>Long Term Exposure No information available        |
| INJECTION:    | Short Term Exposure: No information available<br>Long Term Exposure No information available |

**THE AFOREMENTIONED INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. TWIST BIOSCIENCE SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.**

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