

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**
681 Gateway Boulevard
South San Francisco, CA 94080
 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
 681 Gateway Boulevard, South San Francisco, CA 94080
 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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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

DESCRIPTION:	Clear, odorless liquid
PH:	7.6, (20 - 22°C)
DENSITY:	ca. 1 g/cm ³ (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 Long Term Exposure No information available
EYE CONTACT:	Short Term Exposure: Possible Irritant Long Term Exposure No information available
INGESTION:	Short Term Exposure: Possible Irritant Long Term Exposure No information available
INHALATION:	Short Term Exposure: Possible Irritant Long Term Exposure No information available
INJECTION:	Short Term Exposure: No information available 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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