



# Material Safety Data Sheet

MSDS-001004

Revision: 1.2

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

### A. PRODUCT IDENTIFIERS

PRODUCT NAME : **DNA Ligation Mix**  
PRODUCT NUMBER : **100263, 100581**  
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 NON-HAZARDOUS.** Despite the classification of certain products/components as non-hazardous, we strongly recommend using prudent laboratory practices: avoiding unnecessary contact and use of personal protective equipment, which may include gloves, eye 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 [%]
glycerol	56-81-5	>= 50 - < 70

## 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: None known to exist.  
Fire Extinguishing Media: Dry chemical, foam, carbon dioxide or water. Warning: Take precaution not to aerosolize the powder, where it could become an inhalation risk.

### 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 6: ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL SPILL: Wear appropriate protective clothing, safety glasses and chemically compatible gloves. Place contaminated material spillage in appropriate 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 eyecontact 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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

DESCRIPTION: Clear liquid

PH: 7.5, (20 - 22°C)

WATER SOLUBILITY: Soluble

ODOR: Odorless

## SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY: LD50 Oral Rat: 12,000 mg/kg

ACUTE DERMAL TOXICITY: LD50 Dermal Rabbit: 10,000 mg/kg

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.

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## 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.

## 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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