

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

A. PRODUCT IDENTIFIERS

PRODUCT NAME : **Twist Enzymatic Fragmentation Kit**
 PRODUCT NUMBER : **100220, 100261, 100262, 100263, 100264, 100287, 100579, 100580, 100581, 100582, 100583, 100586 100770**
 SYNONYMS : **Twist Library Preparation Kit**

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: COMPOSITION/INFORMATION ON INGREDIENTS

Components	Chemical Name	CAS-No	Concentration [%]
5x Fragmentation Enzyme	Glycerol	56-81-5	>= 30 - < 50
DNA Ligation Mix	Glycerol	56-81-5	>= 50 - < 70
10x Fragmentation Buffer	Magnesium chloride, hexahydrate	7791-18-6	>= 1 - < 5
	Tetramethylammonium chloride	75-57-0	>= 1 - < 5
DNA Ligation Buffer	PEG	25322-68-3	>= 30 - < 50
	Magnesium chloride, hexahydrate	7791-18-6	>= 1 - < 5
Amplification Primers	Oligoribonucleic Acid	N/A	100%

SECTION 3: HAZARD IDENTIFICATION

3.1. DNA Ligation Mix, 5x Fragmentation Enzyme, 10x Fragmentation Buffer, Amplification Primers

GHS Classification: Not a hazardous substance or mixture.
 GHS Label Element: Not a hazardous substance or mixture.

3.2. DNA Ligation Buffer

GHS Classification: Category 3 (Respiratory system)



GHS Label Element:

Supplier Information:

Twist Bioscience
 681 Gateway Boulevard, South San Francisco, CA 94080
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 Phone: 1-415-216-8966

Other Information:

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Signal Word:	Warning
Hazard Statements:	H335 May cause respiratory irritation
Precautionary Statements:	Prevention: P280 Wear protective gloves/ protective clothing/ eye protection/ face protection
Carcinogenicity:	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH, IARC, OSHA and NTP.

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 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. 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL SPILL:	Wear appropriate protective clothing, safety glasses and chemically compatible gloves. Place contaminated material spillage in appropriate container for waste disposal according to site regulation. Wash contaminated clothing before reuse
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 in a cool dry place (prolonged storage at 4 °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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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Components	Description	PH	Density	Boiling point	Water Solubility
5x Fragmentation Enzyme	Colorless, odorless, liquid		Ca. 1 g/cm ³ (25 °C)		Soluble
DNA Ligation Mix	Clear, odorless liquid	7.5 (20-22°C)			Soluble
10x Fragmentation Buffer	Colorless, odorless, liquid	7.5	1.037 g/cm ³	100 °C	Soluble
DNA Ligation Buffer	Clear, odorless liquid	7.6 (20-22°C)	Ca. 1 g/cm ³ (25 °C)	Ca. 100 °C	Soluble
Amplification Primers	Clear, odorless, colorless solution	Not determined			

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions. Keep away from oxidizing agents, and acidic or alkaline products.

SECTION 11: TOXICOLOGICAL INFORMATION

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.

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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Safety Data Sheet

<Insert SDS Number>

Revision: <Insert Rev #>

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