

# SAFETY DATA SHEET

Version 1.0  
Revision Date: 5/15/2025

## Product and Company Identification

Product Name: Tn5 Transposase  
Cat #: TN5-100, TN5-200  
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  
United States  
Telephone: 888-MCLAB-88  
650-871-8771  
Fax: 650-871-8796

## Hazards Identification

Classification: This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified (HNOC): Not applicable.

NFPA	Health hazards 0	Flammability 1	Instability 0	Special hazards -
HMS	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection X

## First Aid Measures

**INGESTION:** If accidentally swallowed, wash out mouth with copious amounts of water and call a physician.

**INHALATION:** If inhaled, remove from exposure to fresh air. If breathing becomes difficult, get medical aid.

**SKIN:** In case of contact, immediately flush skin with soap and copious amounts of water.

**EYE:** In case of contact with eyes, immediately flush with copious amounts of water for at least 15 minutes, occasionally lift the upper and lower eyelid. Get medical aid.

## Fire Fighting Measures

---

As in any fire, wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

EXTINGUISHING MEDIA Suitable: water spray, carbon dioxide, dry chemical powder, or appropriate foam.

FLASH POINT: No data available

AUTOIGNITION TEMPERATURE: 393 °C / 739 °F

## Accidental Release Measures

Personal precautions: Ensure adequate ventilation.

Spills/leaks: Prevent further leakage or spillage if safe to do so. Clean up spill immediately with inert material (e.g. vermiculite, earth or sand), place in a suitable container.

## Handling and Storage

HANDLING: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Handle in accordance with good industrial hygiene and safety practice.

STORAGE: Store container tightly closed in a dry and well-ventilated place at 4°C.

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with safety shower and eye wash facility. Mechanical exhaust required.

## Exposure Controls, Personal Protection

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Wear dust mask. Hand: Wear protective gloves.

Eye: Wear appropriate chemical safety goggles or GENERAL HYGIENE MEASURES. Wash thoroughly after handling.

Engineering controls: Showers, Eyewash stations, Ventilation systems.

## Physical/Chemical Properties

Data on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Clear
Color:	No data available
Odor:	None
Odor threshold:	No data available

Property	Value
pH	7.5
Melting point / freezing point	No data available
Initial boiling point & boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available

---

Flammability Limit in Air	
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Water solubility	No data available
Solubility	No data available
Partition coefficient	No data available
Auto ignition temperature	393 °C / 739 °F
Decomposition temperature	None known
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Other data	
Explosive properties	No data available
Oxidizing properties	No data available
Softening point	No data available
Molecular weight	No data available
VOC content	No data available
Liquid Density	No data available

## Stability and Reactivity

CHEMICAL STABILITY: No data available

Condition to Avoid: Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization has not been reported.

## Toxicological Data

Skin: If contacted, it may cause skin irritation. Eye: If contacted, it may cause eye irritation.

Inhalation: If inhaled, it may be harmful.

Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: It may be harmful if swallowed.

The following values are estimated based on chapter 3.1 of the GHS document.

ATEmix (oral)	22	g/kg
ATEmix (dermal)	19	g/kg
ATEmix (inhalation-gas)	100,000	ppm
ATEmix (inhalation-dust/mist)	100,000	mg/l
ATEmix (inhalation-vapor)	100,000	mg/l

---

Delayed and immediate effects as well as chronic effects from short and long-term exposure.

Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT - single exposure	No data available
STOT - repeated exposure	No data available
Aspiration hazard	No data available
Other adverse effects	No data available
Interactive effects	No data available

## Ecological Data

Not data available.

## Disposal Considerations

Follow all federal, state, and local environmental regulations.

Call a licensed professional waste disposal service to dispose of this material waste in accordance with environmental legislation.

## Transport Data

US DOT

Non-Hazardous for Transport

IATA

Non-Hazardous for Air Transport

DOT Not regulated

IATA Not regulated

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

IMDG Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

## Regulatory Data

UNITED STATES REGULATORY DATA SARA LISTED: No

---

## CANADA REGULATORY DATA

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the data required by the CPR.

DSL: No

NDSL: No

## US Federal Regulations

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## U.S. EPA Label Information

EPA Pesticide Registration Number: Not applicable.

## US State Regulations California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Glycerol (CAS 56-81-5)	X	X	X
Ethylenediaminetetraacetic acid (CAS 60-00-4)	X	X	X

## Other Data

For research use only. The above data was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The data shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE DATA IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.