

Version 1.0 **MSDS**

Product and Company Identification

Product Name: TEV Protease

TEP-100, TEP-200, TEP-300, TEP-OEM Cat #:

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

888-MCLAB-88 Telephone:

650-871-8771

650-871-8796 Fax:

Hazards Identification

GHS - Classification

Signal Word WARNING Health Hazard

Skin Corrosion/Irritation Category 3

Physical Hazards not hazardous Hazard statements

H316 - Causes mild skin irritation

Precautionary statements

P332 + P313 - If skin irritation occurs: Get medical advice/attention

Principle Routes of Exposure/

Potential Health effects

Eves May cause eye irritation with susceptible persons.

Skin Mild skin irritation.

May be harmful by inhalation. Inhalation

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhea.

Specific effects

Carcinogenic effects none Mutagenic effects none Reproductive toxicity none Sensitization none

Target Organ Effects None under normal use conditions **HMIS**

Health 1
Flammability 0
Reactivity 0

Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
glycerol	56-81-5	200-289-5	30-60
TRIS Base	77-86-1	201-064-4	0.5-1.5

First aid measures

Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Immediate medical attention is required.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Ingestion	Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison Control Centre immediately.
Notes to physician	Treat symptomatically.

Fire-fighting measures

Suitable extinguishing media Water spray. Carbon dioxide (CO2). Foam. Dry chemical.

Special protective equipWear self-contained breathing apparatus and protective suit.

ment for firefighters

Accidental release measures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal

protective equipment.

Methods for cleaning up Soak up with inert absorbent material.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Handling and storage

Handling Always wear reccommended Personal Protective Equipment. No special handling advice

required.

Storage Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

Exposure controls/personal protection

Exposure limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
glycerol	15 mg/m ³ 5 mg/m ³	none	10 mg/m ³	none
TRIS Base	none	none	none	none

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Impervious gloves.

Eye protection Safety glasses with side-shields. Skin and body protection. Lightweight protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure Prevent product from entering drains. Do not allow material to contaminate ground water

controls system.

Physical and chemical properties

General Information

Form liquid

Appearance No information available Odor No information available

Boiling Point/Range °C no data available °F no data available

Melting point/range °C no data available °F no data available

Flash point °C no data available °F no data available

Autoignition temperature °C no data available °F no data available

Oxidizing properties No information available.

Water solubility soluble

Stability and reactivity

Stable under normal conditions.

Materials to avoid No information available. Hazardous decomposition prod-No information available.

ucts

polymerization None under normal processing.

Toxicological information

Acute toxicity

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
glycerol	= 12600 mg/kg (Rat)	no data available	no data available
TRIS Base	= 5900 mg/kg (Rat)	no data available	no data available

Principle Routes of Exposure/

Potential Health effects

Eyes May cause eye irritation with susceptible persons.

Skin Mild skin irritation.

Inhalation May be harmful by inhalation.

Ingestion May be harmful if swallowed Ingestion may cause gastrointestinal irritation, nausea, vomit-

ing and diarrhea.

Carcinogenic effects none
Mutagenic effects none
Reproductive toxicity none
Sensitization none

Target Organ Effects None under normal use conditions

Ecological information

Ecotoxicity effects No information available.

Mobility No information available.

Biodegradation No information available.

Bioaccumulation No information available.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
glycerol 56-81-5		Daphnia magna EC50>500 mg/L (24 h)			logPow-1.76

Disposal considerations

Dispose of in accordance with local regulations.

Transport information

IATA

Proper shipping name
Not classified as dangerous in the meaning of transport regulations

Hazard class none
Subsidiary Class none
Packing group none
UN-No none

Regulatory information

Component TSCA glycerol Listed

56-81-5 (30-60)

TRIS Base Listed

77-86-1 (0.5-1.5)

U.S. Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

U.S. State Regulations

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
glycerol	Listed	-	Listed	-	Listed
TRIS Base	-	-	-	-	-

California Proposition 65

This product does not contain chemicals listed under Proposition 65

WHMIS Hazard Class

D2B Toxic materials

Other Information

For research use only. The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information 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 INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

1-(650) 871-8771 www.mclab.com