



MATERIAL SAFETY DATA SHEET

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System
#P0785S

SECTION 1 –PRODUCT

Product Name: Protein Tyrosine Phosphatase (PTP) Assay System

SECTION 2 –CHEMICAL INFORMATION

1. Glycerol	50%	Cas.	#56-81-5
2. Sodium Chloride	< 1%	Cas.	#7647-14-5
3. Magnesium Chloride	< 1%	Cas.	#7786-30-3
5. BriJ 35	10%	Cas.	#9002-92-0
6. Tris-HCl	> 1%	Cas.	#77-86-1
7. EDTA	< 1%	Cas.	#60-00-4
8. Dithiothreitol	> 1%	Cas.	#3483-12-3
9. ATP	< 1%	Cas.	#42170-89-4
10. EGTA	< 1%	Cas.	#67-42-5
11. Manganese Chloride	< 1%	Cas.	#13446-34-9

SECTION 3–COMPOSITION/ INFORMATION ON INGREDIENT

CHEMICAL NAME: GLYCEROL

CAS No.: 56-81-5

MF: C3H8O3

EC No.: 200-289-5

SYNONYMS: CITIFLOUR AF 2 * GLYCERIN * GLYCERIN, ANHYDROUS * GLYCERINE * GLYCERIN MIST (ACGIH, OSHA) * GLYCERIN, SYNTHETIC * GLYCERITOL GLYCYL ALCOHOL * CLYZERIN, WASSERFREI (GERMAN) * GROCOLENE * OSMOGLYN * 1,2,3-PROPANETRIOL * STAR * SYNTHETIC GLYCERIN * TECHNICAL GLYCERINE * TRIHYDROXYPROPANE * 1,2,3-TRIHYDROXYPROPANE.

SECTION 4–HAZARDOUS IDENTIFICATION

LABEL PRECAUTIONARY STATEMENTS:

CAUTION

Avoid contact by inhalation, skin and ingestion.

Target Organ (S)

Kidney
Hygroscopic

SECTION 5 –FIRST AID MEASURES

ORAL EXPOSURE: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE: If inhaled, remove to fresh air. If breathing is difficult, call a physician.

DERMAL EXPOSURE: In case of contact, immediately wash skin with soap and copious amounts of water. Remove clothing and call a physician.

EYE EXPOSURE: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

SECTION 6–FIRE FIGHTING MEASURES

Extinguishing Media:

Water Spray
Carbon Dioxide, Dry Chemical powder or appropriate foam

Unusual Fire and Explosions Hazard (s):

Emits toxic toxic fumes under fire conditions.

Prevent contact with skin and eyes.

Special Firefighting Procedures: Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 7 – ACCIDENTAL RELEASE MEASURES

PROCEDURE(S) OF PERSONAL PRECAUTION(S):

Wear self-contained breathing apparatus, chemical safety goggles, rubber boots, and chemical resistant gloves.

Wear disposable coveralls and discard them after use.

METHODS FOR CLEANING UP:

Absorb on sand or vermiculite and place in a closed container for disposal.

Ventilate area and wash spill site after material pickup is complete.

SECTION 8 – HANDLING AND STORAGE

Refer to Section 8

SECTION 9–EXPOSURE CONTROLS /PPE

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment:

Respiratory

NIOSH/MSHA-approved respirator.

Hand:

Compatible chemical-resistant gloves.

Eye:

Compatible safety goggles.

General Hygiene Measures:

Wash thoroughly after handling.

Wash contaminated clothing before use.

AVOID INHALATION

KEEP TIGHTLY CLOSED

STORE IN A COOL DRY PLACE

FREEZE.

STORE AT -20°C

SECTION 10– PHYSICAL AND CHEMICAL PROPERTIES

Physical Properties:

Melting Point: 20° C

Boiling Point: 182° C

Flash Point: > 392 F, > 200° C

Explosion Limits in Air:

Lower: 0.9%

Specific Gravity: 1.262

Solubility: Water -Z26130

Vapor Pressure: < 1 MMHG @ 20°C

Vapor Density: 3.1 G/L

PH: 5.5–8.0

SECTION 11 – STABILITY AND REACTIVITY

Stability: Stable

Materials to Avoid:

Strong oxidizing agents, strong bases.

Hazardous Decomposition Products:

Carbon Monoxide, Carbon Dioxide

Hazardous Decomposition Products: Will not occur.

PROTECT FROM HEAT

SECTION 12–TOXICOLOGICAL INFORMATION

Route of Exposure:

Skin Contact

May cause skin irritation

Eye Contact:

May cause eye irritation

Multiple Routes

May be harmful by inhalation, ingestion, or skin absorption

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

RTECS #:MA8050000

GLYCEROL

Chronic Effects: Target Organs, Kidney

IRRITATION DATA:

SKN-RBT 500 MG/24H MLD

EYE-RBT 126 MG MLD

EYE-RBT 500 MG/24H MLD

85JCAE -, 207, 1986

BIOFX* 9-4/970

85JCAE -, 207, 1986

TOXICITY DATA:

ORL-RAT LD50: 12600 MG/KG

IHL-RAT LC50: > 570 MG/M3/1H

IPR-RAT LD50: 4420 MG/KG

SCU-RAT LD50: 100 MG/KG

IVN-RAT LD50: 5566 MG/KG

ORL-MUS LD50: 4090 MG/KG

IPR-MUS LD50: 8700 MG/KG

FEFRA7 4, 142, 1945

BIOFX* 9-4/970

RCOCB8 56, 125,1987

NIIRDN 6, 215, 1982

ARZNAD 26,1581,1976

FRZKAP (6), 56, 1977

ARZNAD 28,1579,1978

SCU-MUS LD50: 91 MG/KG
IVN-MUS LD50: 4250 MG/KG
ORL-RBT LD50: 27 GM/KG
SKN-RBT LD50: >10 GM/KG
IVN-RBT LD50: 53 GM/KG
ORL-GPG LD50: 7750 MG/KG

NIIRDN 6, 215, 1982
JAPMA8 39, 583, 1950
DMDJAP 31, 276, 1959
BIOFX* 9-4/970
NIIRDN 6, 215, 1982
JIHTAB 23, 259, 1941

TARGET ORGAN DATA:

Behavioral (headache)	Paternal effects (testes, epididymis, sperm duct)
Gastrointestinal (nausea or vomiting)	Effects on fertility (male fertility index)
Kidney, ureter, bladder (changes in tubules)	Effects on fertility (post-implantation mortality)
Kidney, ureter, bladder (changes in urine composition)	Only selected registry of toxic effects of chemical substance
Paternal effects (spermatogenesis)	(RTECS) data is presented here. See actual entry in RTECS

SECTION 13—ECOLOGICAL INFORMATION

Data not yet available

SECTION 14—DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material.
Observe all federal state and local environmental regulations.
Dissolve or mix the material with a combustable solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

SECTION 15— TRANSPORT INFORMATION

Contact New England Biolabs, Inc. Company for Transportation Information.

SECTION 16— REGULATORY INFORMATION

Reviews, standards and Regulations:

OEL=MAK
ACGIH TLV-TWA 10 MG/M3
EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTER FEREAC 54, 7740, 1989.
MSHA STANDARD: NUISANCE PARTICULATES (MIST)
DTLWS* 3, 20, 1973
OSHA PEL (GEN INDU): 8H TWA 15 MG/M3, TOTAL DUST
CFRGBR 29, 1910.1000, 1994
OSHA PEL (GEN INDU): 8H TWA 5 MG/M3, RESPIRABLE FRACTION
CFRGBR 29, 1910.1000, 1994
OSHA PEL (CONSTRUC): 8H TWA 15 MG/M3, TOTAL DUST
CFRGBR 29, 1926.55, 1994
OSHA PEL (CONSTRUC): 8H TWA 5 MG/M3, RESPIRABLE FRACTION
CFRGBR 29, 1926.55, 1994
OSHA PEL (SHIPYARD): 8H TWA 15 MG/M3, TOTAL DUST
CFRGBR 29, 1915.1000, 1993
OSHA PEL (SHIPYARD): 8H TWA 5 MG/M3, RESPIRABLE FRACTION
CFRGBR 29, 1915.1000, 1993

DTLVS* TLV/BEI, 1999
OEL -Australia: TWA 10 MG/M3, JAN 1993
OEL -Belgium: TWA 10 MG/M3, JAN 1993
OEL -Finland: TWA 20 MG/M3, JAN 1999
OEL -France: VME 10 MG/M3, JAN 1999
OEL -The Netherlands: MAC-TGG 10 MG/M3, Jan 1999
OEL -United Kindgom: TWA 10 MG/M3, MIST Sept 2000
OEL in Argentina, Bulgaria, Colombia, Jordan, Korea Check ACC
NOHS 1974: HZD 35085; NIS 358; TNF 86657; NOS 198;
TNE 1085329
NOHS 1983: HZD 35085; NIS 310; TNF 67054; NOS 215;
TNE 2135546; TFE 1346631
EPA TSCA SECTION 8 (B) Chemical Inventory
EPA TSCA SECTION 8 (D) Unpublished Health/Safety Studies
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE,
Jan. 2001

SECTION 17— OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

New England Biolabs shall not be held liable for any damage resulting from handling or from contact with the above product.