# MATERIAL SAFETY DATA SHEET



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REVISION DATE: 4/07

Methyltransferase

#M0233

#### SECTION 1 - CHEMICAL INFORMATION

Product Name: SET7 Methyltransferase

1.	Glycerol	50%	Cas.	#56-81-5
2.	Magnesium Chloride	< 1%	Cas.	#7786-30-3
3.	Tris-HCI	< 1%	Cas.	#77-86-1
4.	Dithiothreitol	< 1%	Cas.	#3483-12-3
5.	Sodium Chloride	< 1%	Cas.	#7647-14-5

# SECTION 2-COMPOSITION/INFORMATION ON INGREDIENT

**CHEMICAL NAME: GLYCEROL** 

CAS No.: 56-81-5 Formula: C3H803 SARA 313: No

**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.

RTECS Number: MA8050000

skin and ingestion.

#### **SECTION 3-HAZARDOUS IDENTIFICATION**

Emergency Overview:

CAUTION

Avoid contact by inhalation,

Avoid contact by inhalation,

Hygroscopic

HMIS Rating
Health: 1\*
Flammability: 0
Reactivity: 1

NFPA Rating
Health: 1
Flammability: 0
Reactivity: 1

# **SECTION 4 -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 5-FIRE FIGHTING MEASURES**

Extinguishing Media: Water Spray

Carbon Dioxide, Dry Chemical powder or appropriate foam

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

Unusual Fire and Explosions Hazard (s): Emits toxic toxic fumes under fire conditions.

Flammability: N/A

Prevent contact with skin and eyes.

<sup>\*</sup> additional chronic hazards present

#### SECTION 6 – ACCIDENTAL RELEASE MEASURES

#### PROCEDURE(S) OF PERSONAL PRECAUTION(S):

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors

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 7 – HANDLING AND STORAGE**

Handling **Storage Special Requirements** 

User Exposure: Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Suitable: Keep tightly closed.

Hygroscopic

# SECTION 8-EXPOSURE CONTROLS /PPE

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

**Personal Protective Equipment:** 

Respiratory Eve:

Compatible safety goggles. NIOSH/MSHA-approved respirator.

Compatible chemical-resistant gloves.

General Hygiene Measures:

Wash thoroughly after handling. Wash contaminated clothing before use.

AVOID INHALATION

Keep Tightly Closed Store in a cool dry place.

#### **Exposure Limits, RTECS**

Country Source Type Value

ACGIH USA USA **ACGIH** TWA TWA 10 MG/M3 10 MG/M3

Remarks: inhalable particulate

USA USA MSHA Standard MSHA

Remarks: Nuisance Particulates (mist.) Nuisance

8H TWA 15 MG/M3, Total Dust 8H USA USA OSHA OSHA. PEL PEL

New Zealand OEL **OEL** Remarks: check ACGIH TLV check ACGIH TLV

**Exposure Limits** 

Country Source Type Value Poland NDS 10 mg/m3

Poland **NDSCh** 

Poland **NDSP** 

Remarks: (OELS are valid for aerosols) aerozole

# **SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES**

**Explosion Limits in Air: Physical Properties:** 

Vapor Density: 3.1 G/L Melting Point: 20° C Lower: 0.9%

**PH:** 5.5-8.0 Boiling Point: 182° C Specific Gravity: 1.262

Flash Point: 320 F, 160° C Method: closed up Solubility: Water -Z26130

Autoignition Temp: 370° C Vapor Pressure: < 1 MMHG @ 20°C

# **SECTION 10 – STABILITY AND REACTIVITY**

Stability: Stable **Hazardous Decomposition Products:** Carbon Monoxide, Carbon Dioxide Materials to Avoid:

Strong oxidizing agents, strong bases. **Hazardous Polymerization:** 

PROTECT FROM HEAT AND MOISTURE Hazardous Polymerization: Will not occur.

# SECTION 11-TOXICOLOGICAL INFORMATION

Route of Exposure:

**Multiple Routes Eye Contact: Skin Contact** 

May be harmful by inhalation, ingestion, or skin absorption May cause eye irritation May cause skin irritation

RTECS #:MA8050000

Materials may be irritating to mucous membranes and upper respiratory tract. Chronic Effects: Target Organs, Kidney

Signs and Symptoms of Exposure: Prolonged exposure can

cause: Nausea, headache and vomiting

To the best of our knowledge, the properties have not yet been thoroughly investigated.

**IRRITATION DATA:** 

 SKN-RBT
 500 MG/24H MLD
 85JCAE -, 207, 1986

 EYE-RBT
 126 MG MLD
 BIOFX\* 9-4/970

 EYE-RBT
 500 MG/24H MLD
 85JCAE -, 207, 1986

**TOXICITY DATA:** 

ORL-RAT LD50: 12600 MG/KG FEPRA7 4, 142, 1945 **IHL-RAT LC50:** > 570 MG/M3/1H BIOFX\* 9-4/970 LD50: 4420 IPR-RAT MG/KG RCOCB8 56, 125,1987 **SCU-RAT LD50**: 100 MG/KG NIIRDN 6, 215, 1982 IVN-RAT **LD50**: 5566 MG/KG ARZNAD 26,1581,1976 **ORL-MUS LD50**: 4090 MG/KG FRZKAP (6), 56, 1977 IPR-MUS LD50: 8700 ARZNAD 28,1579,1978 MG/KG **SCU-MUS LD50**: 91 MG/KG NIIRDN 6, 215, 1982 **IVN-MUS** LD50: 4250 MG/KG JAPMA8 39, 583, 1950 ORL-RBT LD50: 27 GM/KG DMDJAP 31, 276, 1959 BIOFX\* 9-4/970 SKN-RBT **LD50**: >10 GM/KG IVN-RBT **LD50**: 53 GM/KG NIIRDN 6, 215, 1982 JIHTAB 23, 259, 1941 **ORL-GPG LD50**: 7750 MG/KG

**TARGET ORGAN DATA:** 

Behavioral (headache)

Gastrointestinal (nausea or vomiting)

Kidney, ureter, bladder (changes in tubules)

Kidney, ureter, bladder (changes in urine composition)

Paternal effects (spermatogenesis)

Paternal effects (testes, epididymis, sperm duct)

Effects on fertility (male ferility index)

Effects on fertility (post-implantation mortality)

Only selected registry of toxic effects of chemical substance (RTECS) data is presented here. See actual entry in RTECS

#### SECTION 12-ECOLOGICAL INFORMATION

Data not yet available

# **SECTION 13-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 combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### **SECTION 14-TRANSPORT INFORMATION**

DOT

Proper Shipping Name: None

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

# Non-hazardous for transport

This substance is considered to be non-hazardous for transport

# **SECTION 15- REGULATORY INFORMATION**

# **EU Additional Classification**

S: 23 24/25

Safety Statements: Do not breathe vapor. Avoid contact with skin and eyes.:

# **US Classification and Label Text:**

US Statements: **Caution:** Avoid contact and inhalation. Target Organ(s): Kidneys

# **Canada Regulatory Information**

WHMIS Classification: This product has been classification in accordance with the

hazard criteria of the CPR and the MSDS contains all the

information required by the CPR

DSL: Yes NDSL: No

# United States Regulatory Information: Sara Listed: No TSCA Inventory Item: Yes Yes

# **SECTION 16- OTHER INFORMATION**

#### **DISCLAMER**

For R&D use only. Not for drug, household or other uses.

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.



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**Buffer** #B0233

REVISION DATE: 4/07

# **SECTION 1-PRODUCT**

Product Name: Micrococcal Nuclase Reaction Buffer

# **SECTION 2-CHEMICAL INFORMATION**

 1. Tris-HCl
 < 1%</td>
 Cas. #77-86-1

 3. Magnesium Chloride
 < 1%</td>
 Cas. #7786-30-3

 4. Dithiothreitol
 < 1%</td>
 Cas. #3483-12-3

# **SECTION 3-HAZARDOUS INFORMATION**

Many NEB products are classified mixtures which cantain hazardous ingredients in concentrations (less than 1%)> The quantity of hazardous chemical component does not exceed the permissible limit or "Threshold Limit Value".

MSDS' are offered by NRB since The Hazards Communication Standard set by OSHA does not exempt these mixtures from disclosure.

# **SECTION 4-OTHER INFORMATION**

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