

enabling technologies in the life sciences

# SAFETY DATA SHEET

**Document Type** WPNA - Canada and Mexico Revision date 08-Mar-2017 Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product name** Monarch Proteinase K Resuspension Buffer

**Product No** T2002-1

Recommended use of the chemical and restrictions on use

This product is for research and development only Recommended use

Uses advised against No information available

Details of the supplier of the safety data sheet

**Supplier Address** New England BioLabs

240 County Road Ipswich, MA 01938

USA

**Company Phone Number** 978-927-5054

800-632-5227 (toll free)

978-921-1350 **Telefax** E-mail address info@neb.com

Emergency telephone number

**Emergency telephone** 978-927-5054

800-632-5227 (toll free)

9:00am - 5:00pm Monday-Friday EST

Product name Monarch Proteinase K

Resuspension Buffer

# 2. HAZARDS IDENTIFICATION

# **Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health / environment

Appearance Colorless

Physical state Liquid

Odor Mild

#### Principle Routes of Exposure

### **Acute toxicity**

Inhalation

May be harmful if inhaled.

Eyes

None known.

Skin

None known.

Ingestion

None known.

**Chronic Effects** 

Chronic toxicity
No information available
Symptoms
No information available.

Aggravated Medical Conditions
Interactions with Other Chemicals

Preexisting eye disorders. Kidney disorders. Skin disorders. Respiratory disorders.

No information available

**Environmental hazard** 

See Section 12: ECOLOGICAL INFORMATION

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Glycerol	56-81-5	30-60

The product contains no substances which at their given concentration, are considered to be hazardous to health

### 4. FIRST AID MEASURES

#### **General advice**

No hazards which require special first aid measures.

#### Eye contact

None under normal use conditions.

#### Skin contact

None under normal use conditions.

#### Inhalation

None under normal use conditions.

#### Ingestion

None under normal use conditions.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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# Unsuitable extinguishing media

None.

# Specific hazards arising from the chemical

None in particular

# Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health hazards 0 Flammability 0 Stability 0 Special Hazard -

Health hazards 0 Flammability 0 Physical hazards 0 Personal protection -

# 6. ACCIDENTAL RELEASE MEASURES

# Personal protective equipment [PPE]

Use personal protection recommended in Section 8.

#### **Environmental precautions**

See Section 12 for additional Ecological Information.

### **Methods for containment**

Not applicable.

### Methods for cleaning up

Collect spillage.

# 7. HANDLING AND STORAGE

### Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice.

### Storage temperature

No information available.

# **Storage Conditions**

Keep/store only in original container.

### Incompatible materials

None known based on information supplied.

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# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol	-	TWA: 15 mg/m³ mist, total	-
56-81-5		particulate	
		TWA: 5 mg/m <sup>3</sup> mist, respirable	
		fraction	
		(vacated) TWA: 10 mg/m <sup>3</sup> mist,	
		total particulate	
		(vacated) TWA: 5 mg/m³ mist,	
		respirable fraction	

#### Other information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

# **Engineering controls**

Showers. Eyewash stations.

#### Personal protective equipment (PPE)

Eye/face protection

Wear safety glasses with side shields (or goggles).

# Skin and body protection

Wear suitable protective clothing and gloves.

### Respiratory protection

Not applicable.

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical stateLiquidAppearanceColorlessOdorMild

PropertyRemarks • MethodpHNot applicableMelting point / freezing pointNo information availableBoiling point / boiling rangeNo information availableFlash pointNo information availableEvaporation rateNo information availableFlammability (solid, gas)No information availableFlammability Limit in AirNo information available

Upper flammability limit Lower flammability limit

Vapor pressureNo information availableVapor densityNo information availableRelative densityNo information availableSpecific gravityNo information availableWater solubilityNo information availableSolubility in other solventsNo information availablePartition coefficientNo information available

Partition coefficientNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information available

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Explosive propertiesNo information availableOxidizing propertiesNo information available

Other information

Softening pointNo information availableMolecular weightNo information availableVOC content (%)No information availableDensityNo information availableBulk densityNo information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available.

### **Stability**

Stable under normal conditions.

### Possibility of hazardous reactions

None under normal processing.

#### **Conditions to avoid**

None known based on information supplied.

### **Incompatible materials**

None known based on information supplied.

### **Hazardous decomposition products**

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

### **Product information**

Product does not present an acute toxicity hazard based on known or supplied information.

#### Inhalation

No known effect.

#### Eye contact

No known effect.

#### Skin contact

No known hazard in contact with skin.

#### Ingestion

No known effect.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat) 1 h

**Chronic toxicity** 

Skin corrosion/irritation Not applicable
Serious eye damage/eye irritation Not applicable

Irritation No information available

**Corrosivity** Not applicable

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Sensitization

Skin No information available Respiratory No information available Germ cell mutagenicity No information available Carcinogenicity No information available

Reproductive toxicity
Developmental toxicity
Teratogenicity
STOT - single exposure
STOT - repeated exposure
Chronic toxicity
No information available

**Target organ effects** Eyes, Kidneys, Respiratory system, Skin.

Neurological effectsNo information availableOther adverse effectsNo information availableAspiration hazardNo information available

# 12. ECOLOGICAL INFORMATION

#### Marine pollutant

No information available

#### **Ecotoxicity**

No information available

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Glycerol		51 - 57: 96 h Oncorhynchus mykiss	500: 24 h Daphnia magna mg/L
•		mL/L LC50 static	EC50

### Persistence and degradability

No information available

#### **Bioaccumulation**

No information available

#### Mobility

No information available

Chemical Name	Partition coefficient
Glycerol	-1.76

Other adverse effects
Ozone depletion potential (ODP)

No information available No information available

# 13. DISPOSAL CONSIDERATIONS

### **Disposal considerations**

Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.

# Contaminated packaging

Empty containers must be tripled rinsed prior to disposal.

# 14. TRANSPORT INFORMATION

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**DOT** Not regulated

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

IATA Not regulated

IMDG Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION			
International Inventories			
TSCA	Complies		
DSL	Complies		
NDSL	Complies		
Chemical Name	TSCA	DSL	NDSL
Glycerol	Drecent	Y	Not Listed

#### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

### **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

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

#### **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

### **International Regulations**

Chemical Name	Carcinogenicity	Exposure Limits
Glycerol	-	Mexico: TWA 10 mg/m <sup>3</sup>

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#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

# **16. OTHER INFORMATION**

Prepared by EH&S Manager

978-927-5054

Prepared by New England BioLabs Issue date No data available

Revision note SDS is valid 3 years from revision date. Contact info@neb.com for latest revision

**Disclaimer** 

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**End of Safety Data Sheet**