

Document Type AGHS - OSHA GHS

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Version 1

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

**Product name** Monarch Proteinase K Reaction Buffer  
**Product No** T2003-1

### Recommended use of the chemical and restrictions on use

**Recommended use** This product is for research and development only  
**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)

**Telefax** 978-921-1350

**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

## 2. HAZARDS IDENTIFICATION

### Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label elements

### Emergency Overview

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

**Appearance** Colorless

**Physical state** Liquid

**Odor** Mild

### Hazards not otherwise classified (HNOC)

### Other information

20 % of the mixture consists of ingredient(s) of unknown toxicity *Note: No data available*

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

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

### 4. FIRST AID MEASURES

#### 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.

##### **Most important symptoms and effects, both acute and delayed**

No information available.

##### **Indication of any immediate medical attention and special treatment needed**

##### **Note to physicians**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### **Suitable extinguishing media**

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

#### **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.

### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions, protective equipment and emergency procedures**

##### **Personal precautions**

No information available.

##### **Personal protective equipment [PPE]**

Use personal protection recommended in Section 8.

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**Environmental precautions**

See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up****Methods for containment**

Not applicable.

**Methods for cleaning up**

Collect spillage.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities****Storage temperature**

No information available.

**Storage Conditions**

Keep/store only in original container.

**Incompatible materials**

None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters****Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

Showers. Eyewash stations.

**Individual protection measures, such as personal protective equipment****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**

<b>Physical state</b>	Liquid
<b>Appearance</b>	Colorless
<b>Odor</b>	Mild

<u>Property</u>	<u>Remarks • Method</u>
pH	Not applicable
Melting point / freezing point	No information available
Boiling point / boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	No information available
Upper flammability limit	
Lower flammability limit	
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Specific gravity	No information available
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
 <u>Other information</u>	
Softening point	No information available
Molecular weight	No information available
VOC content (%)	No information available
Density	No information available
Bulk density	No information available

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical 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 under normal use conditions.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Inhalation

No known effect.

#### Eye contact

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No known effect.

**Skin contact**

No known hazard in contact with skin.

**Ingestion**

No known effect.

**Information on toxicological effects**

**Symptoms** No information available.

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

<b>Skin corrosion/irritation</b>	Not applicable
<b>Serious eye damage/eye irritation</b>	Not applicable
<b>Irritation</b>	No information available
<b>Corrosivity</b>	Not applicable
<b>Sensitization</b>	
<b>Skin</b>	No information available
<b>Respiratory</b>	No information available
<b>Germ cell mutagenicity</b>	No information available
<b>Carcinogenicity</b>	No information available

<b>Reproductive toxicity</b>	No information available
<b>Developmental toxicity</b>	No information available
<b>Teratogenicity</b>	No information available
<b>STOT - single exposure</b>	No information available
<b>STOT - repeated exposure</b>	No information available
<b>Chronic toxicity</b>	No information available
<b>Subchronic toxicity</b>	No information available
<b>Target organ effects</b>	None known.
<b>Neurological effects</b>	No information available
<b>Other adverse effects</b>	No information available
<b>Aspiration hazard</b>	No information available

**Numerical measures of toxicity - Product information**

**Unknown acute toxicity** 20 % of the mixture consists of ingredient(s) of unknown toxicity  
**The following values are calculated based on chapter 3.1 of the GHS document . mg/kg**

**12. ECOLOGICAL INFORMATION**

**Marine pollutant**

No information available

**Ecotoxicity**

No information available

22 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

**Persistence and degradability**

No information available

**Bioaccumulation**

No information available

**Mobility**

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No information available

**Other adverse effects**

**Ozone** No information available

**Ozone depletion potential (ODP)** No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**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**

**DOT**

Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

**TSCA** -

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

**US Federal Regulations**

**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.

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

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**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

<b>NFPA</b>	Health hazards 0	Flammability 0	Instability 0	Special Hazard -
<b>HMIS</b>	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection -

Prepared by EH&S Manager  
978-927-5054  
Prepared by New England Biolabs  
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**Disclaimer**

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**End of Safety Data Sheet**