

# SAFETY DATA SHEET

## 1. Identification of the substance/mixture and of the company/undertaking

## Identification of the substance/preparation

Product code 15630080

Product name HEPES Buffer Solution 1M

## Company/Undertaking Identification

Life Technologies
5791 Van Allen Way
5250 Mainway Drive
PO Box 6482
Burlington, ONT
Carlsbad, CA 92008
CANADA L7L 6A4
+1 760 603 7200
800/263-6236

24 hour Emergency Response: 866-536-0631

301-431-8585

Outside of the U.S. +1-301-431-8585

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

## 2. Hazards identification

## **GHS - Classification**

Signal Word not hazardous

#### **Health Hazard**

not hazardous

#### **Physical Hazards**

not hazardous

## Principle Routes of Exposure/

**Potential Health effects** 

**Eyes**May cause eye irritation with susceptible persons. **Skin**May cause skin irritation in susceptible persons.

InhalationMay be harmful by inhalation.IngestionMay be harmful if swallowed.

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**Specific effects** 

Carcinogenic effectsnoneMutagenic effectsnoneReproductive toxicitynoneSensitizationnone

Target Organ Effects No known effects under normal use conditions.

## **HMIS**

Health	0	
Flammability	0	
Reactivity	0	

## 3. Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %	
HEPES	7365-45-9	-	10-30	

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

### 4. First aid measures

**Skin contact** Rinse with plenty of water. If symptoms arise, call a physician.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. If symptoms persist, call a physician.

**Ingestion** Never give anything by mouth to an unconscious person. If symptoms persist, call

a physician. Do not induce vomiting without medical advice.

**Inhalation** Move to fresh air. If symptoms persist, call a physician. If not breathing, give

artificial respiration.

Notes to physician Treat symptomatically.

#### 5. Fire-fighting measures

Suitable extinguishing media Special protective equipment for firefighters Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Wear self-contained breathing apparatus and protective suit.

## 6. Accidental release measures

Personal precautions Methods for cleaning up Use personal protective equipment. Soak up with inert absorbent material.

## **Environmental precautions**

Prevent further leakage or spillage if safe to do so.

See Section 12 for additional information.

## 7. Handling and storage

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Handling Always wear reccommended Personal Protective Equipment. No special handling

advice required.

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

## 8. Exposure controls/personal protection

## **Exposure limits**

We are not aware of any national exposure limit.

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)	
HEPES	none	none	none	none	

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

### 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.

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

Hand protection Impervious gloves.

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

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

**Environmental exposure** 

controls

Prevent product from entering drains.

#### 9. 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

No information available.

Oxidizing properties soluble Water solubility pH Range 7.2 - 7.5

#### 10. Stability and reactivity

Stability Stable under normal conditions.

No dangerous reaction known under conditions of normal use. Materials to avoid

None under normal use **Hazardous decomposition** 

products

polymerization Hazardous polymerisation does not occur.

11. Toxicological information

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## Acute toxicity

#### not hazardous

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)	
HEPES	no data available	no data available	no data available	

## Principle Routes of Exposure/

**Potential Health effects** 

**Eyes**May cause eye irritation with susceptible persons. **Skin**May cause skin irritation in susceptible persons.

InhalationMay be harmful by inhalation.IngestionMay be harmful if swallowed.

Carcinogenic effectsnoneMutagenic effectsnoneReproductive toxicitynoneSensitizationnone

Target Organ Effects No known effects under normal use conditions.

## 12. Ecological information

Ecotoxicity effectsNo information available.MobilityNo information available.BiodegradationInherently biodegradableBioaccumulationDoes not bioaccumulate.

## 13. Disposal considerations

Dispose of in accordance with local regulations.

## 14. 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

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## 15. Regulatory information

Component	TSCA
HEPES	Listed
7365-45-9 ( 10-30 )	

## **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
HEPES	-	-	-	-	-

#### **California Proposition 65**

This product does not contain chemicals listed under Proposition 65

## **WHMIS Hazard Class**

Non-controlled

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

#### 16. Other information

Reason for Revision

(M)SDS sections updated.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

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 unkown 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 WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE.

**End of Safety Data Sheet** 

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