

Revision date 19-Dec-2023

# SAFETY DATA SHEET

Version 3

1. Identification		
Product identifier		
Product name	EpiMark™ Hot Start Taq Reaction Buffer	
Other means of identification		
Product No	B0490	
Synonyms	None	
Recommended use of the chemical	and restrictions on use	
Recommended use	This product is for research and development only	
Restrictions on use	No information available	
Details of the supplier of the safety data sheet		
Supplier Address New England BioLabs 240 County Road Ipswich, MA 01938 USA		
Emergency telephone number		
Company Phone Number	978-927-5054, 800-632-5227 (toll free)	
Telefax	978-921-1350	
E-mail address	info@neb.com	
24 Hour Emergency Phone Number	Chemtrec +1 703-741-5970	

# 2. Hazard(s) identification

## **Classification**

This product is not considered hazardous by either the US 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) or the Canadian Workplace Hazardous Material Information System (WHMIS 2015).

## Label elements

#### Hazard statements

This product is not considered hazardous by either the US 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) or the Canadian Workplace Hazardous Material Information System (WHMIS 2015).

Other information

No information available.

# 3. Composition/information on ingredients

#### **Substance**

Not applicable.

#### Mixture

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Ammonium Sulfate	7783-20-2	0.5 - 1.5	-	-

# 4. First-aid measures

## Description of first aid measures

Inhalation	Remove to fresh air.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water.	
Ingestion	Rinse mouth.	
Most important symptoms and effects, both acute and delayed		
Symptoms Effects of Exposure	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.	
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	No information available.	
Explosion data Sensitivity to mechanical impact Sensitivity to static discharge	t None. None.	
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	
6. Accidental release meas	ures	
Personal precautions, protective eq	uipment and emergency procedures	
Personal precautions	Ensure adequate ventilation.	
Methods and material for containment and cleaning up		

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage			
Precautions for safe handling			
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.		
Conditions for safe storage, including any incompatibilities			
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.		

# 8. Exposure controls/personal protection

Control	parameters
Exposur	

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

# Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	No special protective equipment required.
Hand protection	No special protective equipment required.
Skin and body protection	No special protective equipment required.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
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 state	Liquid	
Appearance	Colorless	
Color	No information available	
Odor	Mild	
Odor threshold	No information available	
Property	Values	Remarks • Method
рН	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang		None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	No information available	
VOC content	No information available	

Liquid Density	No information available
Bulk density	No information available

# 10. Stability and reactivity

No information available.
Stable under normal conditions.
None under normal processing.
None known based on information supplied.
None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information	

#### Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.
<u>Symptoms related to the physical,</u> Symptoms	chemical and toxicological characteristics No information available.

## Acute toxicity

#### Numerical measures of toxicity No information available

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium Sulfate 7783-20-2	= 2840 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure Skin corrosion/irritation No information available.

Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.

with

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

# 12. Ecological information

# Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ammonium Sulfate 7783-20-2	-	LC50: =250mg/L (96h, Brachydanio rerio) LC50: =480mg/L (96h, Brachydanio rerio) LC50: =420mg/L (96h, Brachydanio rerio) LC50: =18mg/L (96h, Cyprinus carpio) LC50: 32.2 - 41.9mg/L (96h, Oncorhynchus mykiss) LC50: 5.2 - 8.2mg/L (96h, Oncorhynchus mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: 123 - 128mg/L (96h, Poecilia reticulata) LC50: =126mg/L (96h, Poecilia reticulata)	-	LC50: =14mg/L (48h, Daphnia magna)

Persistence and degradability No information available.

## Bioaccumulation

# Component Information

Chemical name	Partition coefficient
Ammonium Sulfate	-5.1
7783-20-2	

Mobility in soil

No information available.

Other adverse effects

No information available.

# 13. Disposal considerations

## Waste treatment methods

Waste from residues/unused	Dispose of in accordance with local regulations. Dispose of waste in accordance w
products	environmental legislation.

**Contaminated packaging** 

Do not reuse empty containers.

# **14. Transport information**

DOT	Not regulated
TDG	Not regulated
<u>MEX</u>	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG_	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

# 15. Regulatory information

# **Regulatory information**

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.

Legend:

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

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

# US Federal Regulations

# SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %	
Ammonium Sulfate - 7783-20-2	1.0	

## SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## 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

This product does not contain any substances regulated under applicable state right-to-know regulations

## U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information				
<u>NFPA</u> HMIS	Health hazards 0 Health hazards 0	Flammability 0 Flammability 0	Instability 0 Physical hazards 0	Special hazards $\ \ -$ Personal protection $\ \ X$
Key or legend to abl	previations and acronyms	used in the safety data s	sheet	
TWA T Ceiling M	XPOSURE CONTROLS/PEI WA (time-weighted average) aximum limit value	STEL *	Skin designation	m Exposure Limit)
Agency for Toxic Sub U.S. Environmental P European Food Safet EPA (Environmental I Acute Exposure Guid U.S. Environmental P U.S. Environmental P Food Research Journ Hazardous Substance International Uniform National Institute of T Australia National Ind NIOSH (National Insti National Library of Me National Library of Me National Toxicology F New Zealand's Chem	Protection Agency) eline Level(s) (AEGL(s)) rotection Agency Federal Ins rotection Agency High Produ- al e Database Chemical Information Databa echnology and Evaluation (N ustrial Chemicals Notificatior tute for Occupational Safety edicine's ChemID Plus (NLM edicine's PubMed database (	ry (ATSDR) v Database secticide, Fungicide, and I uction Volume Chemicals ase (IUCLID) IITE) n and Assessment Schem and Health) CIP) (NLM PUBMED) nation Database (CCID)	Rodenticide Act ne (NICNAS)	ns

Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Prepared by	Environmental, Health and Safety, 978-927-5054
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Disclaimer

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End of Safety Data Sheet