

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: OSHA 29 CFR 1910.1200

Document Type US - OSHA GHS

Revision date 13-Dec-2023

Version 9

1. Identification		
Product identifier		
Product name	Exonuclease I Reaction Buffer	
Other means of identification		
Product No	B0293	
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 E-mail address 24 Hour Emergency Phone Number	978-921-1350 info@neb.com Chemtrec +1 703-741-5970	

2. Hazard(s) identification

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Other information

No information available.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

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

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	No information available.	
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	
Large Fire	surrounding environment. 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 None.		
Sensitivity to static discharge	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 measures

Personal precautions,	protective eq	uipment and	emergency	procedures

Personal precautions	Ensure adequate ventilation.
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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 container tightly closed in a dry and well-ventilated place.	

8. Exposure controls/personal protection

Control parameters

Exposure Limits

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, su	ch as personal protective equipment
Eye/face 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

AppearanceColorlessColorNo information availableOdorMildOdor thresholdNo information availablePropertyValuesPHNo data availableNone knownMelting point / freezing pointNo data availableNone knownMelting point and boiling rangeNo data availableNone knownInitial boiling point and boiling rangeNo data availableNone knownFlash pointNo data availableNone knownFlash pointNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability (solid, gas)No data availableNone knownUpper flammability or explosive limitsNo data availableNone knownVapor pressureNo data availableNone knownVapor pressureNo data availableNone knownVapor densityNo data availableNone knownVater solubility (ies)No data availableNone knownSolubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownAutoignition temperature295 °C / 563 °FDecomposition temperatureVance trictNo data availableNone knownAutoignition temperatureNo data availableNone knownKinematic viscosityNo data availableNone known
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Kinematic viscosity No data available None known
Remark 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		
Reactivity	No information 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 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.	
Symptoms related to the physical, c	hemical and toxicological characteristics	
Symptoms	No information available.	
Acute toxicity		
Numerical measures of toxicity		
The following values are calculated ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-gas) ATEmix (inhalation-dust/mist) ATEmix (inhalation-vapor)	based on chapter 3.1 of the GHS document 157,663.80 mg/kg 99,999.00 mg/kg 99,999.00 ppm 99,999.00 mg/l 99,999.00 mg/l	
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.			
STOT - single exposure	No information available.			
STOT - repeated exposure	No information available.			
Aspiration hazard	No information available.			
Other adverse effects	No information available.			
Interactive effects	No information available.			

12. Ecological information

Ecotoxicity

Persistence and degradability	No information available.			
Bioaccumulation	There is no data for this product.			
Other adverse effects	No information available.			

13. Disposal considerations					
Waste treatment methods					
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.				
Contaminated packaging	Do not reuse empty containers.				
14 Transport informatio	n				

14. Transport information

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
<u>ADN</u>	Not regulated

15. Regulatory information

International Inventories	
TSCA	Contact supplier for inventory compliance status.
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 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

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).

<u>CERCLA</u>

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. Oth	er information						
<u>NFPA</u> HMIS	Health haza Health haza		Flammability Flammability		Instability 0 Physical hazards		Special hazards - Personal protection X
Key or lea	gend to abbreviations and a	acronyms	used in the safe	etv data sh	eet		
	Section 8: EXPOSURE CON				<u></u>		
TWA	TWA (time-weighte			STEL	STEL (Short	Term I	Exposure Limit)
Ceiling	Maximum limit valu			*	Skin designa		1 ,
Key literat	ture references and source	s for data	used to compil	e the SDS			
	r Toxic Substances and Dise						
U.S. Envir	onmental Protection Agency	ChemView	Database				
	Food Safety Authority (EFSA	,					
``	ronmental Protection Agency	,					
	osure Guideline Level(s) (AE						
	onmental Protection Agency				odenticide Act		
	onmental Protection Agency	High Produ	iction Volume C	hemicals			
	earch Journal						
	s Substance Database	dan Datak					
	al Uniform Chemical Informative						
	stitute of Technology and Ev			nt Cohomo			
	National Industrial Chemicals			nt Scheme	(NICNAS)		
	ational Institute for Occupation ibrary of Medicine's ChemID						
	ibrary of Medicine's PubMed						
	oxicology Program (NTP)	ualabase (
	and's Chemical Classification	and Inform	ation Database				
	on for Economic Co-operation				lth and Safety Public	rations	
	on for Economic Co-operation						
	on for Economic Co-operation					ogram	
0	Ith Organization			ing monite			
Broparad	hv	Environma	ntal Haalth and	Sofoty			
Prepared	ыу	978-927-5	ntal, Health and	Salety			
Revision	date	13-Dec-20					
Revision			-	evision dat	e. Contact info@neb.	com fo	or latest revision.
Disclaime			,				
		etv Data S	heet is correct	to the best	of our knowledge a	ind be	lief at the date of

The information provided in this Safety Data Sheet is correct to the best of our knowledge and belief at the date of publication. This information is intended only as a guide for safe handling, use, processing, storage, transportation, disposal and release and should not be taken as a warranty or quality specification. The information relates only to the specific material and may not be valid for such material used in combination with any other materials or in any process unless expressly specified in the text. New England Biolabs will not be liable for any damages resulting from handling or contact with the product.

End of Safety Data Sheet