

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 6

1. Identification		
Product identifier		
Product name	Endoproteinase AspN Reaction Buffer (2X)	
Other means of identification		
Product No	B8104	
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

Toxic to aquatic life with long lasting effects. Harmful to aquatic life.

## 3. Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

Chemical name	CAS No.	Weight-%	Trade secret
Zinc Sulfate	7733-02-0	0.1 - 1	*

### 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 surrounding environment.		
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.		
<b>Unsuitable extinguishing media</b> Do not scatter spilled material with high pressure water streams.			
Specific hazards arising from the No information available. chemical			
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 equipment and emergency procedures

#### 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 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	Individual protection measures, such 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

	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 ran	geNo data available	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		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties Oxidizing properties	No information available 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, o	chemical and toxicological characteristics			
Symptoms	No information available.			
Acute toxicity				
Numerical measures of toxicity				
The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)99,999.00ATEmix (dermal)99,999.00ATEmix (inhalation-gas)99,999.00ATEmix (inhalation-dust/mist)99,999.00ATEmix (inhalation-vapor)99,999.00				

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Zinc Sulfate	= 1710 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
7733-02-0			

#### 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

Toxic to aquatic life with long lasting effects. Harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Zinc Sulfate 7733-02-0	EC50: =0.056mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =0.162mg/L (96h, Oncorhynchus mykiss) LC50: 0.03 - 0.05mg/L (96h, Oncorhynchus mykiss) LC50: 0.34 - 0.93mg/L (96h, Oncorhynchus mykiss) LC50: 0.218 - 0.42mg/L (96h, Pimephales promelas) LC50: =0.06mg/L (96h, Pimephales promelas) LC50: 0.23 - 0.48mg/L (96h, Pimephales promelas) LC50: 0.168 - 0.25mg/L (96h, Pimephales promelas) LC50: =0.168 - 0.25mg/L (96h, Pimephales promelas) LC50: =0.15mg/L (96h, Cyprinus carpio)	-	EC50: =0.75mg/L (48h, Daphnia magna) EC50: 0.538 - 0.908mg/L (48h, Daphnia magna)

LC50: 16.85 - 27.18mg/L	
(96h, Cyprinus carpio)	
LC50: 3 - 4.6mg/L (96h,	
Lepomis macrochirus)	
LC50: 3.55 - 6.32mg/L	
(96h, Lepomis	
macrochirus)	
LC50: =0.63mg/L (96h,	
Poecilia reticulata)	
LC50: 49.23 - 64.16mg/L	
(96h, Poecilia reticulata)	
LC50: 0.48 - 1.72mg/L	
(96h, Poecilia reticulata)	

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.
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.

# 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
ADN	Not regulated

# 15. Regulatory information

International Inventories

Contact supplier for inventory compliance status. Contact supplier for inventory compliance status.					
	Contact s	upplier for	inventorv	compliance	status.
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Legend:

TSCA DSL/NDSL EINECS/ELINCS

ENCS

**IECSC** 

KECL PICCS

AIIC NZIoC

**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.

Chemical name	SARA 313 - Threshold Values %
Zinc Sulfate - 7733-02-0	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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc Sulfate	1000 lb	X	-	X
7733-02-0				~

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs		Reportable Quantity (RQ)
		Substances RQs	
Zinc Sulfate	1000 lb	-	RQ 1000 lb final RQ
7733-02-0			RQ 454 kg final RQ

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Zinc Sulfate	Х	Х	Х
7733-02-0			

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other inform	mation			
NFPA HMIS	Health hazards 0 Health hazards 0	Flammability 0 Flammability 0	Instability 0 Physical hazards 0	Special hazards - Personal protection X
LegendSection 8:TWATVCeilingMKey literature refereAgency for Toxic SubU.S. Environmental PEuropean Food SafetEPA (Environmental IAcute Exposure GuidU.S. Environmental PU.S. Environmental PU.S. Environmental PU.S. Environmental PHazardous Substance	Protection Agency) eline Level(s) (AEGL(s)) rotection Agency Federal In rotection Agency High Prod al	ERSONAL PROTECTIO STEL * used to compile the SI try (ATSDR) v Database secticide, Fungicide, and uction Volume Chemicals	N STEL (Short Ten Skin designation	n Exposure Limit)
National Institute of T Australia National Ind NIOSH (National Insti National Library of Me National Library of Me National Toxicology F	echnology and Evaluation (N ustrial Chemicals Notificatio itute for Occupational Safety edicine's ChemID Plus (NLM edicine's PubMed database Program (NTP)	NITE) n and Assessment Scher and Health) I CIP) (NLM PUBMED)	ne (NICNAS)	
Organization for Econ Organization for Econ	ical Classification and Inform nomic Co-operation and Dev nomic Co-operation and Dev nomic Co-operation and Dev nation	elopment Environment, H elopment High Productio	n Volume Chemicals Progra	
Prepared by	Environmo 978-927-5	ental, Health and Safety		
Revision date Revision note <u>Disclaimer</u> The information pro	13-Dec-20	023 lid 3 years from revision o	date. Contact info@neb.com	

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