

SAFETY DATA SHEET

Revision date 19-Dec-2023 Version 5

1. Identification

Product identifier

Unstained Protein Marker, Broad Range (10-200 kDa) **Product name**

Other means of identification

Product No P7717

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use This product is for research and development only

Restrictions on use

Details of the supplier of the safety data sheet

Supplier Address

New England BioLabs 240 County Road Ipswich, MA 01938

ÚSA

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

Acute toxicity - Inhalation (Dusts/Mists)

Not applicable

Label elements

Hazard statements

2.91 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

2.91 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

37.91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

37.91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

35.91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Other information

Harmful to aquatic life with long lasting effects.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%	Information Review	Date HMIRA filed and date exemption granted (if applicable)
Sodium Dodecyl Sulfate	151-21-3	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 No information available.

Effects of Exposure No information available.

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Indication of any immediate medical attention and special treatment needed

5. Fire-fighting measures

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing mediaDo 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 equipment 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

Exposure Limits

Appropriate engineering controls

(10-200 kDa)

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

Hand protection No special protective equipment required.

Skin and body protectionNo 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 Clear

Color No information available

Odor Odorless

Odor threshold No information available

Property Values Remarks • Method

pH 7.5

Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo 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 No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressure No data available None known No data available None known Vapor density No data available Relative density None known No data available Water solubility None known Solubility(ies) No data available None known **Partition coefficient** No data available None known

Autoignition temperature 392.78 °C / 739 °F

Decomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other information

Explosive propertiesNo information available

P7717 - Unstained Protein Marker, Broad Range (10-200 kDa)

Oxidizing properties

Softening point

Molecular weight

VOC content

Liquid Density

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 avoidNone known based on information supplied.

Incompatible materialsNone 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, 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 document

ATEmix (oral) 23,970.20 mg/kg
ATEmix (dermal) 7,518.80 mg/kg
ATEmix (inhalation-gas) 99,999.00 ppm
ATEmix (inhalation-vapor) 99,999.00 mg/l
ATEmix (inhalation-dust/mist) 31.20 mg/l

2.91 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

2.91 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

37.91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

37.91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

35.91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Γ	Sodium Dodecyl Sulfate	= 1288 mg/kg (Rat)	= 200 mg/kg (Rabbit)	> 3900 mg/m³ (Rat) 1 h
	151-21-3			-

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.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Sodium Dodecyl Sulfate		LC50: 15 - 18.9mg/L (96h,	-	EC50: =1.8mg/L (48h,
151-21-3	Desmodesmus	Pimephales promelas)		Daphnia magna)
	subspicatus)	LC50: 8 - 12.5mg/L (96h,		
	EC50: 30 - 100mg/L (96h,			
	Desmodesmus	LC50: 22.1 - 22.8mg/L		
	subspicatus)	(96h, Pimephales		
	EC50: =117mg/L (96h,	promelas)		
	Pseudokirchneriella	LC50: 4.3 - 8.5mg/L (96h,		
	subcapitata)	Oncorhynchus mykiss)		
	EC50: 3.59 - 15.6mg/L	LC50: =4.62mg/L (96h,		
	(96h, Pseudokirchneriella	Oncorhynchus mykiss)		
	subcapitata)	LC50: =4.2mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =7.97mg/L (96h,		
		Brachydanio rerio)		
		LC50: 9.9 - 20.1mg/L		
		(96h, Brachydanio rerio)		
		LC50: 4.06 - 5.75mg/L		
		(96h, Lepomis		
		macrochirus)		
		LC50: 4.2 - 4.8mg/L (96h,		
		Lepomis macrochirus)		
		LC50: =4.5mg/L (96h,		
		Lepomis macrochirus)		
		LC50: 5.8 - 7.5mg/L (96h,		
		Pimephales promelas)		

LC50: 10.2 - 22.5mg/L	
(96h, Pimephales	
promelas)	
LC50: 6.2 - 9.6mg/L (96h,	
Pimephales promelas)	
LC50: 13.5 - 18.3mg/L	
(96h, Poecilia reticulata)	
LC50: 10.8 - 16.6mg/L	
(96h, Poecilia reticulata)	
LC50: =1.31mg/L (96h,	
Cyprinus carpio)	

Persistence and degradability

No information available.

Bioaccumulation

Component Information

Chemical name	Partition coefficient	
Sodium Dodecyl Sulfate	1.6	
151-21-3		

Mobility in soil

No information available.

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.

US EPA Waste Number P105

14. Transport information

DOT Not regulated Not regulated TDG MEX Not regulated Not regulated ICAO (air) IATA Not regulated Not regulated <u>IMDG</u> 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

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

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. Contact supplier for inventory compliance status. **KECL** Contact supplier for inventory compliance status. **PICCS** Contact supplier for inventory compliance status. AIIC **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).

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.

<u>US State Regulations</u> 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
Glycerol 56-81-5	X	X	Х
Ethylenediamine tetraacetic acid 60-00-4	X	Х	Х
Sodium Azide 26628-22-8	X	Х	Х
Dibasic Sodium Phosphate 7558-79-4	X	Х	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPAHealth hazards1Flammability1Instability0Special hazards-HMISHealth hazards0Flammability1Physical hazards0Personal protectionX

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

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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Revision note No information available.

Disclaimer

IMPORTANT: The information in this SDS is provided in good faith based on our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express

Revision date 19-Dec-2023

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End of Safety Data Sheet

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