

Revision date 08-Dec-2023

# SAFETY DATA SHEET

Version 2

Section 1: Identification		
Product identifier		
Product name	NEBNext® Ultra II Q5 Master Mix	
Product No	E7649	
Other means of identification		
Synonyms	None	
Recommended use of the chemical	and restrictions on use	
Recommended use	This product is for research and development only	
Uses advised against	No information available	
Details of the supplier of the safety	data sheet	
<u>Supplier</u> New England BioLabs (Australia) Pty Ltd 22/270 Ferntree Gully Road Notting Hill, VIC 3168		
E-mail address	info.au@neb.com	
Emergency telephone number		
Company Phone Number	978-927-5054, 800-632-5227 (toll free)	
National Poisons Centre	0800 764 766 (toll free)	
24 Hour Emergency Phone Number	Chemtrec +65 3163 8374	

## Section 2: Hazard identification

#### **GHS Classification**

Not classified

Label elements

Hazard statements Not classified

Other hazards which do not result in classification May be harmful if swallowed.

## Section 3: Composition/information on ingredients

Chemical name	CAS No.	Weight-%	
Dimethly Sulfoxide	67-68-5	0 - 10%	
Non-hazardous ingredients	Proprietary	Balance	

Section	4: F	irst-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.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

### Section 5: Fire-fighting measures

Suitable extinguishing media

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.		
Special exposure hazards in a fire			
Specific hazards arising from the chemical	No information available.		
Protective equipment and precautio	ns for firefighters		
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.		
Section 6: Accidental release measures			
Personal precautions, protective equipment and emergency procedures			
Personal precautions	Ensure adequate ventilation.		
For emergency responders	Use personal protection recommended in Section 8.		
Environmental precautions			
Environmental precautions	See Section 12 for additional Ecological Information.		
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.		
Precautions to prevent secondary h	azards		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		

## Section 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, includi	ng any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible materials	None known based on information supplied.

## Section 8: Exposure controls/personal protection

#### Control parameters

#### **Exposure Limits**

Biological occupational exposure limits	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.	
Appropriate engineering controls		
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 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.	
Environmental exposure controls	No information available.	

## Section 9: Physical and chemical properties

#### Information on basic physical and chemical properties

information on basic physical and t		
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	<b>e</b> No 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
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	215 °C	
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available.	
Oxidizing properties	No information available.	

Other information	
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
Particle characteristics	No information available

## Section 10: Stability and reactivity

Reactivity	
Reactivity	No information available.
Chemical stability	
Stability	Stable under normal conditions.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Possibility of hazardous reactions	
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	
Conditions to avoid	None known based on information supplied.
Incompatible materials	
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	<u>8</u>

Hazardous decomposition products None known based on information supplied.

## Section 11: Toxicological information

#### Acute toxicity

Information on likely routes of exposure

#### **Product Information**

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	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)	3,101.30 mg/kg
ATEmix (dermal)	10,482.20 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapor)	99,999.00 mg/l
ATEmix (inhalation-dust/mist)	99,999.00 mg/l

#### Component Information

Chemical name		Oral LD50	Dermal LD50	Inhalation LC50	
ſ	Dimethly Sulfoxide	= 28300 mg/kg (Rat)	= 40000 mg/kg (Rat)	> 5.33 mg/L (Rat)4 h	

#### 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.
Data used to identify the health effects	Refer to Section 16 for Key literature references and sources for data used to compile the SDS.

## Section 12: Ecological information

#### **Ecotoxicity**

Aquatic ecotoxicity

Unknown aquatic toxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Dimethly Sulfoxide	-	LC50: =34000mg/L (96h,	-
		Pimephales promelas)	
		LC50: 33 - 37g/L (96h,	

Oncorhynchus mykiss) LC50: >40g/L (96h, Lepomis	
macrochirus) LC50: =41.7g/L (96h, Cyprinus)	
carpio)	

Terrestrial ecotoxicity	There is no data for this product		
Persistence and degradability	No information available.		

#### **Bioaccumulative potential**

#### **Bioaccumulation**

#### **Component Information**

Chemical name	Partition coefficient
Dimethly Sulfoxide	-1.35

#### Mobility in soil

Mobility

No information available.

#### Other adverse effects

No information available.

Section 13: Disposal considerations			
Waste treatment methods			
Waste from residues/unused products	Not applicable. Not Hazardous.		
Contaminated packaging	Not applicable. Not Hazardous.		
Soction 1/1: Transport in	formation		

IATA	Not regulated	
IMDG	Not regulated	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

#### Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

## Section 15: Regulatory information

#### **Regulatory information**

#### National regulations

EPA New Zealand HSNO approval code or group standard	To be determined
National regulations	There are no applicable tolerable exposure limits or environmental exposure limits according to the EPA Controls for Hazardous Substances
Certified handlers, tracking and controlled substance license requirements	Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information Controlled substance licenses are required to possess certain explosives, vertebrate toxic agents and fumigants. See Part 7 of the Health and Safety at Work Regulation 2017 for more 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 inventory compliance status.
Contact supplier for inventory compliance status.

Legend:

**NZIOC** - New Zealand Inventory of Chemicals

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

#### Section 16: Other information

Prepared by	,	Environmental, Health and Safety			
	978-927-5054				
Revision date	08-Dec-2023	08-Dec-2023			
Revision note	SDS is valid 3 year	SDS is valid 3 years from revision date. Contact info@neb.com for latest revision			
***Indicates updated	d data since last publication.				
Key or legend to a	Key or legend to abbreviations and acronyms used in the safety data sheet				
Legend Section 8:	Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION				
TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)					
Ceiling	Maximum limit value	*	Skin designation		
C Carcinogen					

#### 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

#### **Disclaimer**

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#### End of Safety Data Sheet