

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Document Type EU - Europe	e GHS	Revision date 25-Nov-2019	Version 5
1. Identification			
1.1. Product identifier			
Product No	E6051		
Product name	NEBNext	End Repair Enzyme Mix	
1.2. Relevant identified uses of	the substance	or mixture and uses advised against	
Recommended use	This produ	uct is for research and development only	
Uses advised against	No informa	ation available	
1.3. Details of the supplier of the	<u>ne safety data sl</u>	heet	
<u>Supplier Address</u> New England BioLabs 240 County Road Ipswich, MA 01938 USA			
For further information, please	contact		
Company Phone Number Telefax E-mail address <u>1.4. Emergency telephone num</u>	978-921-1 info@neb.		
Europe	+1 978-38	30-2125	
2. Hazard(s) identificati	ion		
2.1. Classification of the substa Regulation (EC) No 1272/2008 This mixture is classified as not h		e_ ding to regulation (EC) 1272/2008 [GHS]	
<u>2.2. Label elements</u> This mixture is classified as not h Hazard statements	azardous accord	ding to regulation (EC) 1272/2008 [GHS]	

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS] EUH210 - Safety data sheet available on request

#### 2.3. Other hazards

Other hazards

No information available

# 3. Composition/information on ingredients

## 3.1 Substances

Not applicable

3.2 Mixtures

Full text of H- and EUH-phrases: see section 16

# 4. First-aid measures

#### 4.1. 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. In the case of skin irritation or allergic reactions see a physician.	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
4.3. Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

5. Fire-fighting measures		
5.1. Extinguishing media		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Unsuitable Extinguishing Media	No information available.	
5.2. Special hazards arising from the substance or mixture		
Specific hazards arising from the chemical	No information available.	
5.3. Advice for firefighters		
Special protective equipment for	Firefighters should wear self-contained breathing apparatus and full firefighting turnout	

fire-fighters gear. Use personal protection equipment.

# 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

For emergency responders	Use personal protection recommended in Section 8.	
6.2. Environmental precautions		
Environmental precautions	See Section 12 for additional Ecological Information.	
6.3. 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	Take up mechanically, placing in appropriate containers for disposal.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	
6.4. Reference to other sections		
Reference to other sections	See section 8 for more information. See section 13 for more information.	

# 7. Handling and storage

7.1. Precautions for safe handling	
Advice on safe handling	Ensure adequate ventilation.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.
7.3. Specific end use(s)	
Risk management methods [RMM]	The information required is contained in this Safety Data Sheet.

# 8. Exposure controls/personal protection

#### 8.1. Control parameters

Exposure Limits

**Derived No Effect Level (DNEL)** No information available.

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**Predicted No Effect Concentration** No information available. **(PNEC)** 

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. **Environmental exposure controls** No information available.

# 9. Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state Appearance	Liquid Colorless	
Odor	None.	
Odor threshold	No information available	
Property	Values_	Remarks • Method
pH	7.4	
Melting point / freezing point	No data available	None known
Boiling point / boiling range	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 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
Explosive properties	No information available	
Oxidizing properties	No information available	
9.2. 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	

# 10. Stability and reactivity

# 10.1. Reactivity

# Reactivity

No information available.

#### 10.2. Chemical stability

Stability	Stable under normal conditions.	
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.	
10.3. Possibility of hazardous reactions		
Possibility of hazardous reactions	None under normal processing.	
10.4. Conditions to avoid		
Conditions to avoid	None known based on information supplied.	
10.5. Incompatible materials		
Incompatible materials	None known based on information supplied.	

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

# 11.1. Information on toxicological effects

# 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 related to the physical,	chemical and toxicological characteristics	
Symptoms	No information available.	
Numerical measures of toxicity		
Acute toxicity     The following values are calculated based on chapter 3.1 of the GHS document ATEmix (oral)     25,200.00 mg/kg ATEmix (dermal)     20,000.00 mg/kg     Unknown acute toxicity   50 % of the mixture consists of ingredient(s) of unknown toxicity.     0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.     0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.     50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).		
50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor). 50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).		

#### 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

<u>12.1. Toxicity</u>		
Ecotoxicity		
Unknown aquatic toxicity	Contains 0 % of components with unknown hazards to the aquatic environment.	
12.2. Persistence and degradability	_	
Persistence and degradability	No information available.	
12.3. Bioaccumulative potential		
Bioaccumulation	There is no data for this product.	
Component Information		
12.4. Mobility in soil		
Mobility in soil	No information available.	
12.5. Results of PBT and vPvB assessment		
PBT and vPvB assessment		
12.6. Other adverse effects		
Other adverse effects	No information available.	

# 13. Disposal considerations

#### 13.1. 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 information

IMDG 14.1 UN number 14.2 Proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Marine pollutant 14.6 Special Provisions 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	Not regulated Not regulated Not regulated Not regulated Not applicable None No information available
RID14.1UN/ID No14.2Proper shipping name14.3Transport hazard class(es)14.4Packing group14.5Environmental hazard14.6Special Provisions	Not regulated Not regulated Not regulated Not regulated Not applicable None
ADR 14.1 UN number 14.2 Proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazard 14.6 Special Provisions	Not regulated Not regulated Not regulated Not regulated Not applicable None
IATA 14.1 UN number 14.2 Proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazard 14.6 Special Provisions	Not regulated Not regulated Not regulated Not regulated Not applicable None

# 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

# Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants Not applicable

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

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
AICS	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
Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

Chemical Safety Report

No information available

# 16. Other information

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

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend	Section 8: EXPOSURE CONTROLS/PERSON	IAL PROTECTION
TWA	TWA (time-weighted average)	STEL
Ceiling	Maximum limit value	*

STEL (Short Term Exposure Limit) 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) Japan GHS Classification 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 RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization

Revision date	25-Nov-2019
Prepared by	Environmental, Health and Safety 978-927-5054
Revision note	SDS is valid 3 years from revision date. Contact info@neb.com for latest revision.

This safety data sheet complies with the requirements of:

#### Disclaimer

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**End of Safety Data Sheet**