

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008

Revision date 06-May-2023 Version 6

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product No E7325

Product name Linear Acrylamide

Pure substance/mixture Mixture

Contains Acrylamide

1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use**This product is for research and development only

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

<u>Supplier Address</u> New England BioLabs 240 County Road Ipswich, MA 01938 USA

For further information, please contact

**Company Phone Number** 978-927-5054, 800-632-5227 (toll free)

**Telefax** 978-921-1350

E-mail address info@neb.com

1.4. Emergency telephone number

24 Hour Emergency Phone Number Chemtrec +44 20 3885 0382

Europe +1 978-380-2125

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Germ cell mutagenicity	Category 1B - (H340)
Carcinogenicity	Category 1B - (H350)

#### 2.2. Label elements

Contains Acrylamide



### Signal word

Danger

#### **Hazard statements**

H340 - May cause genetic defects

H350 - May cause cancer

EUH208 - Contains Acrylamide May produce an allergic reaction.

#### Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

P501 - Dispose of contents/ container to an approved waste disposal plant.

#### Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

#### 2.3. Other hazards

No information available.

**Endocrine Disruptor Information** 

This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical	Weight-%	REACH registration	EC No (EU Index	Classification according to	Specific	M-Facto	M-Factor
name		number	No)	Regulation (EC) No.	concentratio	r	(long-ter
				1272/2008 [CLP]	n limit (SCL)		m)
Acrylamide	0.1 - 1	No data available	(616-003-00-0)	Acute Tox. 3 (H301)	-	-	-
79-06-1			201-173-7	Acute Tox. 4 (H312)			
				Acute Tox. 4 (H332)			
				Skin Irrit. 2 (H315)			
				Eye Irrit. 2 (H319)			
				Skin Sens. 1 (H317)			
				Muta. 1B (H340)			
				Carc. 1B (H350)			
				Repr. 2 (H361f)			
				STOT RE 1 (H372)			

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

#### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

	Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
1				hour - dust/mist -	hour - vapor - mg/L	hour - gas - ppm
				mg/L		
Γ	Acrylamide	124	1148	No data available	No data available	No data available
	79-06-1					

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No	SVHC candidates
Acrylamide	79-06-1	X

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

**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** Rinse mouth.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available. **Symptoms** 

**Effects of Exposure** None. Contains a known or suspected carcinogen.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Note to physicians

## SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the **Suitable Extinguishing Media** 

surrounding environment.

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

Do not scatter spilled material with high pressure water streams. Unsuitable extinguishing media

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 and

precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Other information Refer to protective measures listed in Sections 7 and 8.

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.

Take up mechanically, placing in appropriate containers for disposal. Methods for cleaning up

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information. Reference to other sections

## SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove

contaminated clothing and shoes.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up.

Storage class (TRGS 510) Storage class 6.1C.

7.3. Specific end use(s)

Risk management methods [RMM] The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Exposure Limits** 

Chemical name	Euro	pean Union	Austria	Belgium	Bu	Igaria	Croatia
Acrylamide	TWA	A: 0.1 mg/m <sup>3</sup>	H*	TWA: 0.03 mg/m <sup>3</sup>	TWA: (	0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
79-06-1		*	Sh+	D*		K*	*
							Skin Sensitisation
Chemical name		Cyprus	Czech Republic	Denmark		stonia	Finland
Acrylamide		*	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup>		0.03 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup>
79-06-1	TWA	\: 0.1 mg/m <sup>3</sup>	D*	H*	STEL:	0.1 mg/m³	TWA: 0.1 mg/m <sup>3</sup>
			S+	STEL: 0.06 mg/m <sup>3</sup>		A*	iho*
Chemical name		France	Germany TRGS	Germany DFG		reece	Hungary
Acrylamide	TWA	\: 0.1 mg/m <sup>3</sup>	H*	*	TWA: (	0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
79-06-1		*		skin sensitizer		*	b*
Chemical name		Ireland	Italy MDLPS	Italy AIDII		atvia	Lithuania
Acrylamide		A: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup>	TWA: (	0.1 mg/m <sup>3</sup>	O*
79-06-1	STE	L: 0.3 mg/m <sup>3</sup>	cute*	cute*	P	\da*	TWA: 0.03 mg/m <sup>3</sup>
		Sk*					STEL: 0.1 mg/m <sup>3</sup>
		Sens+					
Chemical name	Lu	xembourg	Malta	Netherlands		orway	Poland
Acrylamide		-	-	TWA: 0.1 mg/m <sup>3</sup>		0.03 mg/m <sup>3</sup>	TWA: 0.07 mg/m <sup>3</sup>
79-06-1				H*	STEL: 0	0.09 mg/m <sup>3</sup>	skóra*
						H*	
Chemical name		Portugal	Romania	Slovakia		ovenia	Spain
Acrylamide		: 0.03 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup>		0.1 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup>
79-06-1		Cutânea*	P*	STEL: 0.15 mg/m <sup>3</sup>		K*	vía dérmica*
			_	K*			Sen+
Chemical name			weden	Switzerland			ted Kingdom
Acrylamide			).03 mg/m <sup>3</sup>	S+			A: 0.1 mg/m <sup>3</sup>
79-06-1		Bindande K	(GV: 0.1 mg/m <sup>3</sup>	TWA: 0.03 mg/n	n <sup>3</sup>	STE	EL: 0.3 mg/m <sup>3</sup>
			H*	H*			Sk*

## **Biological occupational exposure**

limits

Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
Acrylamide	-	-	-	550 pmol/g Globin -	-

			<b>I</b>	
79-06-1			BLW (after expo	
			for at least 3	
			months) erythro	
			50 pmol/g Glob	
			BAR (after expo	
			for at least 3	
			months) erythro	
			100 μg/g Creatir	
			BAR (end o	
			exposure or en	
			shift) urine	
			200 pmol/g Glo	
			(after exposure	
			least 3 months	
			erythrocyte frac	
			of whole bloc	
			400 pmol/g Glo	
			(after exposure	
			least 3 months	
			erythrocyte frac	
			of whole bloc	
			550 pmol/g Glo	
			(after exposure	
			least 3 months	
			erythrocyte frac	
			of whole bloc	
			800 pmol/g Glo	
			(after exposure	
			least 3 months	
			erythrocyte frac	
			of whole bloc	
			1600 pmol/g Glo	
			(after exposure	
			least 3 months	
			erythrocyte frac	
Chamical name	Hungany	Iroland	of whole bloc	
Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII
Acrylamide 79-06-1	-	0.5 nmol/g hemoglobin	-	-
/ 9-00-1		(blood - N-2-Carbamoylethyl-valin		
		e adduct post shift toward the end of the working		
		_		
Chemical name	Slovenia	week) Spain	Switzerland	United Kingdom
Acrylamide	800 pmol/g Globin -	Opaili	OWILZGIIAIIU	onited Kingdom
79-06-1	erythrocyte fraction of the	-	- I	-
7 9-00-1	whole blood			
	(N-(2-Carbonamidethyl)v			
	aline) - after a minimum of			
	3 months exposure			
1	o montrio expeditio		l	

# Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Tris-HCI 1185-53-1	-	216.6 mg/kg bw/day [4] [6]	152.8 mg/m³ [4] [6]
Ethylenediamine tetraacetic acid 60-00-4	-	-	1.5 mg/m³ [5] [6] 3 mg/m³ [5] [7]

**Notes** 

[4] Systemic health effects.[5] Local health effects.

[6] Long term. [7] Short term.

### Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Tris-HCI 1185-53-1	10.8 mg/kg bw/day [4] [6]	-	37.7 mg/m³ [4] [6]
Ethylenediamine tetraacetic acid 60-00-4	25 mg/kg bw/day [4] [6]	-	0.6 mg/m³ [5] [6] 1.2 mg/m³ [5] [7]

**Notes** 

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

### **Predicted No Effect Concentration (PNEC)**

Freshwater	Freshwater	Marine water	Marine water	Air
	(intermittent release)		(intermittent release)	
2.2 mg/L	1.2 mg/L	0.22 mg/L	-	-
	2.5	(intermittent release)	(intermittent release)	(intermittent release) (intermittent release)

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Ethylenediamine tetraacetic acid 60-00-4	-	-	43 mg/L	0.72 mg/kg soil dw	-

#### 8.2. Exposure controls

**Engineering controls** No information available.

Individual protection measures, such as personal protective

equipment

**Eye/face protection** No special protective equipment required.

Hand protection Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

None known

immediately after handling the product.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance Colorless

**Color** No information available

Odor Odorless.

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing pointNo data availableNone knownInitial boiling point and boiling rangeNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point No data available None known

Autoignition temperature 424 °C

Decomposition temperature

**pH** 7.5

pH (as aqueous solution) No data available None known No data available Kinematic viscosity None known Dynamic viscosity No data available None known No data available Water solubility None known None known Solubility(ies) No data available **Partition coefficient** No data available None known No data available None known Vapor pressure Relative density No data available None known

Bulk density

No data available

Liquid Density No data available

Vapor density No data available None known

**Particle characteristics** 

Particle Size No information available Particle Size Distribution No information available

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes Not applicable

9.2.2. Other safety characteristics

No information available

# SECTION 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 impact** None. **Sensitivity to static discharge** 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.

## SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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.

Acute toxicity

**Numerical measures of toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 62,000.00 mg/kg

 ATEmix (dermal)
 99,999.00 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
Acrylamide	= 124 mg/kg (Rat)	= 1148 mg/kg ( Rabbit )	-

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 Contains a known or suspected mutagen. Classification based on data available for

ingredients. May cause genetic defects.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Chemical name	European Union	
Acrylamide	Muta. 1B	

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union	
Acrylamide	Carc. 1B	

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available

for ingredients.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

The table below indicates ingressions above the out on the control considered as relevant inner are noted as re-		
Chemical name	European Union	
Acrylamide	Repr. 2	

STOT - single exposure No information available.

**STOT - repeated exposure**No information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

## **SECTION 12: Ecological information**

12.1. Toxicity

**Ecotoxicity** 

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Acrylamide	-	LC50: 103 - 115mg/L	-	EC50: =98mg/L (48h,
		(96h, Pimephales		Daphnia magna)
		promelas)		
		LC50: =124mg/L (96h,		
		Pimephales promelas)		
		LC50: 81 - 150mg/L (96h,		
		Lepomis macrochirus)		
		LC50: 137 - 191mg/L		
		(96h, Oncorhynchus		
		mykiss)		
		LC50: 74 - 150mg/L (96h,		
		Oncorhynchus mykiss)		

#### 12.2. Persistence and degradability

Persistence and degradability

No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** 

**Component Information** 

Chemical name	Partition coefficient	
Acrylamide	-0.9	

### 12.4. Mobility in soil

Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment	
Acrylamide	The substance is not PBT / vPvB	

## 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 12.7. Other adverse effects

No information available.

# **SECTION 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.

# **SECTION 14: Transport information**

IATA

14.1 UN number or ID number UN3426

14.2 Extended Proper Shipping Acrylamide Solution

Name

**14.3 Transport hazard class(es)** 6.1 **14.4 Packing group** III

14.5 Environmental hazard Not applicable

14.6 Special precautions for user

Special Provisions None

**IMDG** 

14.1 UN number or ID number14.2 Extended Proper ShippingNot regulatedNot regulated

Name

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazard
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

**14.7 Maritime transport in bulk** No information available

according to IMO instruments

<u>RID</u>

14.1 UN/ID No14.2 Extended Proper ShippingNot regulatedNot regulated

Name

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazard
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

ADR

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazard
Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

# **SECTION 15: Regulatory information**

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

#### **Netherlands**

Chemical name	Netherlands - List of	Netherlands - List of	Netherlands - List of
	Carcinogens	Mutagens	Reproductive Toxins
Acrylamide	Present	Present	Fertility Category 1B

#### **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 contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII) This product contains one or more substance(s) subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Chemical name	Restricted substance per REACH	Substance subject to authorization per
	Annex XVII	REACH Annex XIV
Acrylamide - 79-06-1	28.	-
·	29.	
	60.	
	75.	

#### **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 Contact supplier for inventory compliance status **ENCS IECSC** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **KECL** Contact supplier for inventory compliance status **PICCS** 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

### 15.2. Chemical safety assessment

Chemical Safety Report No information available

### **SECTION 16: Other information**

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

#### Full text of H-Statements referred to under section 3

H301 - Toxic if swallowed

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H340 - May cause genetic defects

H350 - May cause cancer

H361f - Suspected of damaging fertility

H372 - Causes damage to organs through prolonged or repeated exposure

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value \* Skin designation

+ Sensitizers

#### 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)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

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

**Revision note** SDS is valid 3 years from revision date. Contact info@neb.com for latest revision.

Revision date 06-May-2023

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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**