

# **SAFETY DATA SHEET**

Revision date 09-Apr-2024 Version 4

# Section 1: Identification

Product identifier

Product name Linear Acrylamide

Product No E7325

Other means of identification

Synonyms None

Pure substance/mixture Mixture

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 manufacturer or importer

**Supplier** 

New England BioLabs (Australia) Pty Ltd 22/270 Ferntree Gully Road Notting Hill, VIC 3168

For further information, please contact

Contact Point Product Safety Department

E-mail address info.au@neb.com

Emergency telephone number

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

24 Hour Emergency Phone Number Chemtrec +65 3163 8374

**Australian Poisons Information:** 131 126

# Section 2: Hazard(s) identification

### **GHS Classification**

Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B

### Label elements

Health hazard



#### Signal word DANGER

#### **Hazard statements**

May cause genetic defects May cause cancer

### **Precautionary Statements - Prevention**

Obtain special instructions before use

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

Wear protective gloves/clothing and eye/face protection

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Other hazards which do not result in classification

No information available.

# Section 3: Composition and information on ingredients

Chemical name	CAS No.	Weight-%	
Acrylamide	79-06-1	0 - 10%	
Non-hazardous ingredients	Proprietary	Balance	

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### Section 4: First aid measures

### **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.

**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: Firefighting 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 precautions 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

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

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

Precautions to prevent secondary hazards

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. 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.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up.

Incompatible materials None known based on information supplied.

### Section 8: Exposure controls and personal protection

### Control parameters

### **Exposure Limits**

Chemical name	Australia	New Zealand	ACGIH TLV
Acrylamide	TWA: 0.03 mg/m <sup>3</sup>	TWA: 0.0015 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup> inhalable
79-06-1	-	Sk*	fraction and vapor
			Sk*
			dermal sensitizer

Chemical name	European Union	United Kingdom	Germany DFG
Acrylamide	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	Sk*
79-06-1	Sk*	STEL: 0.3 mg/m <sup>3</sup>	skin sensitizer
		Sk*	

### **Biological occupational exposure**

#### limits

Chemical name	Australia	ACGIH	European Union
Acrylamide	-	500 pmol/g globin - blood	-
79-06-1		(N-(2-Carbamoylethyl)valine) -	
		not critical	
		800 μg/g creatinine - urine	
		(S-(2-Carbamoylethyl)mercap	
		turic acid) - end of shift	

#### 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.

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

**Hand protection** Wear suitable gloves.

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

**Environmental exposure controls** No information available.

Thermal hazards No information available.

### Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state Liquid Appearance Colorless

**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

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

Autoignition temperature 424 °C

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

Other information

VOC content
Particle characteristics
No information available
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

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.

Numerical measures of toxicity - Product Information

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

 ATEmix (oral)
 99,999.00 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)	-

See section 16 for terms and abbreviations

### 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.

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	Australia	European Union	IARC
Acrylamide - 79-06-1	Carc. 1B	Carc. 1B	Group 2A

### Legend

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

Reproductive toxicity No information available.

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

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

**Aspiration hazard** No information available.

# 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	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)		

**Terrestrial ecotoxicity** There is no data for this product.

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

**Bioaccumulation** 

**Component Information** 

Chemical name	Partition coefficient
Acrylamide	-0.9

**Mobility** 

**Mobility** No information available.

Other adverse effects

Other adverse effects No information available.

# Section 13: Disposal considerations

Waste treatment methods

Contaminated packaging

Waste from residues/unused

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Do not reuse empty containers.

products

environmental logiciation.

See section 8 for more information

# Section 14: Transport information

ADG Not regulated

IATA

UN number or ID number UN3426

Proper shipping name Acrylamide Solution

Transport hazard class(es) 6.1
Packing group III

<u>IMDG</u>

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

### Section 15: Regulatory information

Regulatory information

National regulations

Australia

See section 8 for national exposure control parameters

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

No poisons schedule number allocated

### **Australian Industrial Chemicals Introduction Scheme (AICIS)**

Chemical name	Australian Industrial	Additional information
	Chemicals Introduction	
	Scheme (AICIS)	

	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Acrylamide - 79-06-1		Specific information requirement: Obligations to provide information apply. You must tell us within 28 days if the circumstances of your importation or manufacture (introduction) are different to those in our assessment.

### **Illicit Drug Precursors/Reagents**

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

#### National pollutant inventory

Subject to reporting requirement

Chemical name	National pollutant inventory
Acrylamide - 79-06-1	10 tonne/yr Threshold category 1

### **International Inventories**

AIIC Contact supplier for inventory compliance status. **NZIoC** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **TSCA** DSL/NDSL Contact supplier for inventory compliance status. 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. **KECI PICCS** Contact supplier for inventory compliance status.

#### Legend:

**AICS** - Australian Inventory of Chemical Substances

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

### 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

# **Section 16: Other information**

Revision date 09-Apr-2024

**Revision Note** 

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 Sk\* 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)

**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)

Australian Industrial Chemicals Introduction Scheme (AICIS)

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)

U.S. 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

**End of Safety Data Sheet** 

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