

Revision date 08-Dec-2023

# SAFETY DATA SHEET

Version 2

| Section 1: Identification  |   |
|--|---|
| Product identifier   |   |
| Product name   | Biotin Solution                                   |
| Product No   | N7024   |
| 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><br>New England BioLabs (Australia) Pty Ltd<br>22/270 Ferntree Gully Road<br>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 No information available.

### Section 3: Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health

| Chemical name             | CAS No.     | Weight-% |
|---------------------------|-------------|----------|
| Non-hazardous ingredients | Proprietary | Balance  |

## Section 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.  |  |
| 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 No information available. chemical

Protective equipment and precautions for firefighters

**Special protective equipment and** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. **precautions for fire-fighters** 

### 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 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.   |  |
|  |  |  |
| Conditions for safe storage, including any incompatibilities |  |  |
| Storage Conditions   | Keep containers tightly closed in a dry, cool and well-ventilated place. |  |
| Incompatible materials                                       | None known based on information supplied.                                |  |
|  | None known based on mornation supplied.                                  |  |

### Section 8: Exposure controls/personal protection

#### Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational

|   | exposure limits established by the region specific regulatory bodies.  |  |
|---|--|--|
| 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<br>Eyewash stations<br>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

| Physical state | Liquid                   |
|----------------|--------------------------|
| Appearance     | Colorless                |
| Color          | No information available |
| Odor           | Mild.                    |
| Odor threshold | No information available |

| Property                               | Values                    | Remarks • Method |
|--|---------------------------|------------------|
| pH                                     | No data available         | None known       |
| Melting point / freezing point         | No data available         | None known       |
| Initial boiling point and boiling rang |                           | 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               | No data available         | None known       |
| Decomposition temperature              |                           | None known       |
| Kinematic viscosity                    | No data available         | None known       |
| -                                      | No data available         | None known       |
| Dynamic viscosity                      |                           | NOTE KIOWIT      |
| 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>}</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<br>ATEmix (oral)<br>ATEmix (dermal)<br>ATEmix (inhalation-gas)<br>ATEmix (inhalation-vapor)<br>ATEmix (inhalation-dust/mist) | d based on chapter 3.1 of the GHS document<br>99,999.00 mg/kg<br>99,999.00 ppm<br>99,999.00 mg/l<br>99,999.00 mg/l |
|--|--|
| 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

|--|

| Aquatic ecotoxicity<br>Unknown aquatic toxicity | The environmental impact of this product has not been fully investigated.<br>0 % of the mixture consists of component(s) of unknown hazards to the aquatic<br>environment. |
|---|--|
| Terrestrial ecotoxicity                         | There is no data for this product.   |
| Persistence and degradability                   | No information available.  |

| <b>Bioaccumulative potential</b> |                                    |
|----------------------------------|------------------------------------|
| Bioaccumulation                  | There is no data for this product. |
|                                  |                                    |
| Mobility in soil                 |                                    |
| Mobility                         | No information available.          |
| -                                |                                    |

Other adverse effects

No information available.

## Section 13: Disposal considerations

#### Waste treatment methods

| Waste from residues/unused | Not applicable.                   |
|----------------------------|-----------------------------------|
| products                   | Not Hazardous.                    |
| Contaminated packaging     | Not applicable.<br>Not Hazardous. |

## Section 14: Transport information

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**

| EPA New Zealand HSNO approval<br>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<br>controlled substance license<br>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<br>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<br>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 |   |
|---------------------------|---|
| NZIoC                     | Contact supplier for inventory compliance status. |
| 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. |
| AIIC                      | 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 a 978-927-5054         | nd Safety |                                  |  |
|---|--------------------|--|-----------|----------------------------------|--|
| Revision date   |                    | 08-Dec-2023                                  |           |                                  |  |
| Revision note<br>***Indicates update  |                    |  |           |                                  |  |
| Key or legend to  | abbreviations and  | acronyms used in the s<br>TROLS/PERSONAL PRO |           |                                  |  |
| TŴA   | TWA (time-weighted | ed average)                                  | STEL      | STEL (Short Term Exposure Limit) |  |
| Ceiling   | Maximum limit val  | ae   | *         | Skin designation                 |  |
| С   | Carcinogen         |  |           |                                  |  |
| Key literature references and sources for data used to compile the SDS<br>Agency for Toxic Substances and Disease Registry (ATSDR)<br>U.S. Environmental Protection Agency ChemView Database<br>European Food Safety Authority (EFSA)<br>EPA (Environmental Protection Agency)<br>Acute Exposure Guideline Level(s) (AEGL(s))<br>U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act<br>U.S. Environmental Protection Agency High Production Volume Chemicals<br>Food Research Journal<br>Hazardous Substance Database<br>International Uniform Chemical Information Database (IUCLID)<br>National Institute of Technology and Evaluation (NITE)<br>Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)<br>NIOSH (National Institute for Occupational Safety and Health)<br>National Library of Medicine's ChemID Plus (NLM CIP)<br>National Library of Medicine's PubMed database (NLM PUBMED)<br>National Toxicology Program (NTP)<br>New Zealand's Chemical Classification and Information Database (CCID)<br>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