



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
REACH Regulation (EC) No 1907/2006, as retained in UK law by (SI 2019/758 as amended)

Revision date 10-Apr-2025

Version 4

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

### 1.1. Product identifier

**Product name** SNAP-Capture Pull-Down Resin

**Product No** S9144

**Pure substance/mixture** Mixture

Contains Isopropyl Alcohol

### 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

#### Supplier

New England BioLabs  
240 County Road  
Ipswich, MA 01938  
USA

For further information, please contact

**Contact Point** 978-927-5054, 800-632-5227 (toll free)

**E-mail address** info@neb.com

### 1.4. Emergency telephone number

**Emergency Telephone** Chemtrec +44 20 3885 0382

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GB CLP (SI 2020/1567 as amended)**

|                                                         |                     |
|---------------------------------------------------------|---------------------|
| <b>Eye irritation</b>                                   | Category 2 - (H319) |
| <b>Specific target organ toxicity (single exposure)</b> | Category 3 - (H336) |
| Category 3 Target organ effects: Narcotic effects.      |                     |

**2.2. Label elements**

Contains Isopropyl Alcohol

**Signal word**

Warning

**Hazard statements**

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

**Precautionary statements**

P261 - Avoid breathing dust, fume, gas, mist, vapors and spray.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P280 - Wear eye and face protection.

P312 - Call a POISON CENTER or doctor if you feel unwell.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

**2.3. Other hazards****Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

| Chemical name             | Weight-% | EC No (EU Index No)      | UK REACH registration number | Classification according to GB CLP (SI 2020/1567 as amended)   | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) | Notes |
|---------------------------|----------|--------------------------|------------------------------|----------------------------------------------------------------|------------------------------------|----------|----------------------|-------|
| Isopropyl Alcohol 67-63-0 | 50 - 60% | 200-661-7 (603-117-00-0) | -                            | Flam. Liq. 2 (H225)<br>Eye Irrit. 2 (H319)<br>STOT SE 3 (H336) | -                                  | -        | -                    | -     |

**Full text of H- and EUH-phrases: see section 16****Acute Toxicity Estimate**

In the absence of LD50/LC50 data, the conversion value (converted acute toxicity point estimate) may be indicated here; please note that these values do not represent test results

| Chemical name             | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---------------------------|-----------------|-------------------|---------------------------------------------|-----------------------------------------|--------------------------------------|
| Isopropyl Alcohol 67-63-0 | 1870            | 4059              | No data available                           | 30.1002                                 | No data available                    |

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (UK REACH Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                    |                                                                                                                                                                                                                                                                                     |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                     | Show this safety data sheet to the doctor in attendance.                                                                                                                                                                                                                            |
| Inhalation                         | Remove to fresh air. IF exposed or concerned: Get medical advice/attention.                                                                                                                                                                                                         |
| Eye contact                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. |
| Skin contact                       | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.                                                                                                                                                                                |
| Ingestion                          | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.                                                                                                                                                                       |
| Self-protection of the first aider | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).                                                                                                                                                                                       |

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

|                     |                                                                                                                                                                                    |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms            | May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |
| Effects of Exposure | No information available.                                                                                                                                                          |

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

|                    |                        |
|--------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|--------------------|------------------------|

## SECTION 5: Firefighting measures

### 5.1. 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.                                       |

### 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**

|                                 |                                                                                                                                                          |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b>     | Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. |
| <b>Other information</b>        | Refer to protective measures listed in Sections 7 and 8.                                                                                                 |
| <b>For emergency responders</b> | Use personal protection recommended in Section 8.                                                                                                        |

**6.2. Environmental precautions**

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| <b>Environmental precautions</b> | See Section 12 for additional Ecological Information. |
|----------------------------------|-------------------------------------------------------|

**6.3. Methods and material for containment and cleaning up**

|                                        |                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------|
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.                                |
| <b>Methods for cleaning up</b>         | Take up mechanically, placing in appropriate containers for disposal.                |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations. |

**6.4. Reference to other sections**

|                                    |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| <b>Reference to other sections</b> | See section 8 for more information. See section 13 for more information. |
|------------------------------------|--------------------------------------------------------------------------|

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

|                                       |                                                                                                                                                                                                                                                                                                               |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Advice on safe handling</b>        | 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. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment. |
| <b>General hygiene considerations</b> | Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.                                                                                                                                                                  |

**7.2. Conditions for safe storage, including any incompatibilities**

|                           |                                                                          |
|---------------------------|--------------------------------------------------------------------------|
| <b>Storage Conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. |
|---------------------------|--------------------------------------------------------------------------|

**7.3. Specific end use(s)**

|                                      |                                                                  |
|--------------------------------------|------------------------------------------------------------------|
| <b>Risk management methods [RMM]</b> | The information required is contained in this Safety Data Sheet. |
|--------------------------------------|------------------------------------------------------------------|

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure Limits**

|               |                |
|---------------|----------------|
| Chemical name | United Kingdom |
|---------------|----------------|

|                              |                                                                                             |
|------------------------------|---------------------------------------------------------------------------------------------|
| Isopropyl Alcohol<br>67-63-0 | TWA: 400 ppm<br>TWA: 999 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1250 mg/m <sup>3</sup> |
|------------------------------|---------------------------------------------------------------------------------------------|

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### Derived No Effect Level (DNEL) - Workers

| Chemical name                | Oral | Dermal                   | Inhalation                    |
|------------------------------|------|--------------------------|-------------------------------|
| Isopropyl Alcohol<br>67-63-0 |      | 888 mg/kg bw/day [4] [6] | 500 mg/m <sup>3</sup> [4] [6] |

#### Notes

[4] Systemic health effects.  
[6] Long term.

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

| Chemical name                | Oral                    | Dermal | Inhalation                   |
|------------------------------|-------------------------|--------|------------------------------|
| Isopropyl Alcohol<br>67-63-0 | 26 mg/kg bw/day [4] [6] |        | 89 mg/m <sup>3</sup> [4] [6] |

#### Notes

[4] Systemic health effects.  
[6] Long term.

#### Predicted No Effect Concentration (PNEC)

| Chemical name                | Freshwater | Freshwater<br>(intermittent release) | Marine water | Marine water<br>(intermittent release) | Air |
|------------------------------|------------|--------------------------------------|--------------|----------------------------------------|-----|
| Isopropyl Alcohol<br>67-63-0 | 140.9 mg/L | 140.9 mg/L                           | 140.9 mg/L   |                                        |     |

| Chemical name                | Freshwater<br>sediment   | Marine sediment          | Sewage treatment | Soil             | Food chain     |
|------------------------------|--------------------------|--------------------------|------------------|------------------|----------------|
| Isopropyl Alcohol<br>67-63-0 | 552 mg/kg sediment<br>dw | 552 mg/kg sediment<br>dw | 2251 mg/L        | 28 mg/kg soil dw | 160 mg/kg food |

### 8.2. Exposure controls

**Engineering controls** No information available.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.

**Hand protection** Wear suitable gloves.

|                                       |                                                                                                                                                                          |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin and body protection</b>       | Wear suitable protective clothing.                                                                                                                                       |
| <b>Respiratory protection</b>         | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| <b>General hygiene considerations</b> | Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.                             |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid                   |
| <b>Appearance</b>     | Colorless                |
| <b>Color</b>          | No information available |
| <b>Odor</b>           | Mild.                    |
| <b>Odor threshold</b> | No information available |

| <u>Property</u>                                | <u>Values</u>            | <u>Remarks • Method</u> |
|------------------------------------------------|--------------------------|-------------------------|
| <b>Melting point / freezing point</b>          | No data available        | None known              |
| <b>Initial boiling point and boiling range</b> | No data available        | None known              |
| <b>Flammability (solid, gas)</b>               | No data available        | None known              |
| <b>Flammability Limit in Air</b>               |                          | None known              |
| <b>Upper flammability or explosive limits</b>  | No data available        |                         |
| <b>Lower flammability or explosive limits</b>  | No data available        |                         |
| <b>Flash point</b>                             | 18 °C                    |                         |
| <b>Autoignition temperature</b>                | 399 °C                   |                         |
| <b>Decomposition temperature</b>               |                          | None known              |
| <b>pH</b>                                      | No data available        | None known              |
| <b>pH (as aqueous solution)</b>                | No data available        | None known              |
| <b>Kinematic viscosity</b>                     | No data available        | None known              |
| <b>Dynamic viscosity</b>                       | No data available        | None known              |
| <b>Water solubility</b>                        | No data available        | None known              |
| <b>Solubility(ies)</b>                         | No data available        | None known              |
| <b>Partition coefficient</b>                   | No data available        | None known              |
| <b>Vapor pressure</b>                          | No data available        | None known              |
| <b>Relative density</b>                        | No data available        | None known              |
| <b>Bulk density</b>                            | No data available        |                         |
| <b>Liquid Density</b>                          | No data available        |                         |
| <b>Vapor density</b>                           | No data available        | None known              |
| <b>Particle characteristics</b>                |                          |                         |
| <b>Particle Size</b>                           | No information available |                         |
| <b>Particle Size Distribution</b>              | No information available |                         |
| <b>Explosive properties</b>                    | No information available |                         |
| <b>Oxidizing properties</b>                    | No information available |                         |

### 9.2. Other information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|                   |                           |
|-------------------|---------------------------|
| <b>Reactivity</b> | 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. Toxicological information****Information on likely routes of exposure****Product Information**

|                     |                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness.               |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.                   |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.             |

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Acute toxicity** No information available.

**Numerical measures of toxicity**

The following ATE values have been calculated for the mixture

|                               |                |
|-------------------------------|----------------|
| ATEmix (oral)                 | 3,740.00 mg/kg |
| ATEmix (dermal)               | 8,118.00 mg/kg |
| ATEmix (inhalation-gas)       | 99,999.00 ppm  |
| ATEmix (inhalation-vapor)     | 60.20 mg/l     |
| ATEmix (inhalation-dust/mist) | 99,999.00 mg/l |

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|-----------|-------------|-----------------|
|---------------|-----------|-------------|-----------------|

|                   |                      |                         |                         |
|-------------------|----------------------|-------------------------|-------------------------|
| Isopropyl Alcohol | = 1870 mg/kg ( Rat ) | = 4059 mg/kg ( Rabbit ) | > 10000 ppm ( Rat ) 6 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** Classification based on data available for ingredients. Causes serious eye irritation.

**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** May cause drowsiness or dizziness.

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

**Aspiration hazard** No information available.

**Other adverse effects** No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

| Chemical name     | Algae/aquatic plants                                                                             | Fish                                                                                                                                       | Toxicity to microorganisms | Crustacea                             |
|-------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| Isopropyl Alcohol | EC50: >1000mg/L (96h, Desmodesmus subspicatus)<br>EC50: >1000mg/L (72h, Desmodesmus subspicatus) | LC50: =9640mg/L (96h, Pimephales promelas)<br>LC50: =11130mg/L (96h, Pimephales promelas)<br>LC50: >1400000µg/L (96h, Lepomis macrochirus) | -                          | EC50: =13299mg/L (48h, Daphnia magna) |

**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential****Bioaccumulation****Component Information**

| Chemical name     | Partition coefficient |
|-------------------|-----------------------|
| Isopropyl Alcohol | 0.05                  |

**12.4. Mobility in soil**

**Mobility in soil** No information available.

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

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

| Chemical name     | PBT and vPvB assessment |
|-------------------|-------------------------|
| Isopropyl Alcohol | Not PBT/vPvB            |

**12.6. 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.

**Other information** Waste codes should be assigned by the user based on the application for which the product was used.

**SECTION 14: Transport information****IATA**

**14.1 UN number or ID number** UN1219  
**14.2 Extended Proper Shipping Name** Isopropyl Alcohol Solution  
**14.3 Transport hazard class(es)** 3  
**14.4 Packing group** II  
**14.5 Environmental hazard** Not applicable  
**14.6 Special precautions for user**  
**Special Provisions** None

**IMDG**

**14.1 UN number or ID number** Not regulated  
**14.2**  
**14.3 Transport hazard class(es)** Not regulated  
**14.4 Packing group** Not regulated  
**14.5 Environmental hazard** Not applicable  
**14.6 Special precautions for user**  
**Special Provisions** None  
**14.7 Maritime transport in bulk according to IMO instruments** No information available

**RID**

**14.1 UN number or ID number** Not regulated  
**14.2**  
**14.3 Transport hazard class(es)** Not regulated  
**14.4 Packing group** Not regulated  
**14.5 Environmental hazard** Not applicable  
**14.6 Special precautions for user**  
**Special Provisions** None

**ADR**

**14.1 UN number or ID number** Not regulated

## 14.2

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not regulated

14.5 Environmental hazard 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****National regulations****Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

**Persistent Organic Pollutants**

Not applicable

**Export Notification requirements**

Not applicable

**Named dangerous substances per COMAH (SI 2015/483 as amended)**

Not applicable

**The Ozone-Depleting Substances Regulations 2015**

Not applicable

**The Biocidal Products Regulations 2001 (as amended)**

| Chemical name               | The Biocidal Products Regulations 2001 (as amended)                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Isopropyl Alcohol - 67-63-0 | Product-type 2: Disinfectants and algacides not intended for direct application to humans or animals Product-type 4: Food and feed area Product-type 1: Human hygiene |

**The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)**

Not applicable

**Poisons and Explosive Precursors**

Not applicable

**International Inventories**

|               |                                                  |
|---------------|--------------------------------------------------|
| TSCA          | Contact supplier for inventory compliance status |
| DSL/NDL       | 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 |
| NZIoC         | Contact supplier for inventory compliance status |
| TCSI          | Contact supplier for inventory compliance status |

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - 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 Chemicals Inventory  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**TCSI** - Taiwan Chemical Substance Inventory

### 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 any hazard and/or precautionary statements referred to under Sections 2-15

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

#### Legend

SVHC: Substances of Very High Concern for Authorization:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT: Specific Target Organ Toxicity

ATE: Acute Toxicity Estimate

LC50: 50% Lethal Concentration

LD50: 50% Lethal Dose

#### 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                 |
| +       | Sensitizers                 |      |                                  |

#### Classification procedure

|                                                              |                    |
|--------------------------------------------------------------|--------------------|
| Classification according to GB CLP (SI 2020/1567 as amended) | Method Used        |
| Acute oral toxicity                                          | Calculation method |
| Acute dermal toxicity                                        | Calculation method |
| Acute inhalation toxicity - gas                              | Calculation method |
| Acute inhalation toxicity - vapor                            | Calculation method |
| Acute inhalation toxicity - dust/mist                        | Calculation method |
| Skin corrosion/irritation                                    | Calculation method |
| Serious eye damage/eye irritation                            | Calculation method |
| Respiratory sensitization                                    | Calculation method |
| Skin sensitization                                           | Calculation method |
| Mutagenicity                                                 | Calculation method |
| Carcinogenicity                                              | Calculation method |
| Reproductive toxicity                                        | Calculation method |
| STOT - single exposure                                       | Calculation method |
| STOT - repeated exposure                                     | Calculation method |
| Acute aquatic toxicity                                       | Calculation method |
| Chronic aquatic toxicity                                     | Calculation method |
| Aspiration hazard                                            | Calculation method |
| Ozone                                                        | Calculation method |

#### 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)  
 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)  
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

**Revision date** 10-Apr-2025

**Further information** SDS is valid 3 years from revision date. Contact [info@neb.com](mailto:info@neb.com) for latest revision

**This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)**

**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**

#### **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**