

# 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 5

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

1.1. Product identifier

Product No M0500

**Product name** Q5 Blood Direct 2X Master Mix

Pure substance/mixture Mixture

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 Address
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

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### **Hazard statements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

EUH210 - Safety data sheet available on request

**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)        |
| Dimethly<br>Sulfoxide<br>67-68-5 | 5 - 10   | No data available  | 200-664-3       | No data available           | 1             | -       | -         |
| Ammonium<br>Sulfate<br>7783-20-2 | 0.1 - 1  | No data available  | 231-984-1       | No data available           | 1             | 1       | -         |

## 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 |
|--------------------|-----------------|-------------------|---------------------|---------------------|---------------------|
|                    |                 |                   | hour - dust/mist -  | hour - vapor - mg/L | hour - gas - ppm    |
|                    |                 |                   | mg/L                |                     |                     |
| Dimethly Sulfoxide | 28300           | 40000             | No data available   | No data available   | No data available   |
| 67-68-5            |                 |                   |                     |                     |                     |
| Ammonium Sulfate   | 2840            | 2000              | No data available   | No data available   | No data available   |
| 7783-20-2          |                 |                   |                     |                     |                     |

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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

#### 4.1. Description of first aid measures

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

**Ingestion** Rinse mouth.

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

**Symptoms** No information available.

**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

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

**Personal precautions** Ensure adequate ventilation.

6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

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

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

6.4. Reference to other sections

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

# SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

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

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510) Storage class 10.

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                 | European Union | Austria                             | Belgium   | Bulgaria  | Croatia             |
|-------------------------------|----------------|-------------------------------------|---|---|---------------------|
| Dimethly Sulfoxide<br>67-68-5 | -              | TWA: 50 ppm<br>TWA: 160 mg/m³<br>H* | -   | -   | -                   |
| Ammonium Sulfate<br>7783-20-2 | -              | -                                   | -   | TWA: 10.0 mg/m <sup>3</sup>   | -                   |
| Chemical name                 | Cyprus         | Czech Republic                      | Denmark   | Estonia   | Finland             |
| Dimethly Sulfoxide<br>67-68-5 | -              | -                                   | TWA: 50 ppm<br>TWA: 160 mg/m³<br>STEL: 100 ppm<br>STEL: 320 mg/m³ | TWA: 50 ppm<br>TWA: 150 mg/m³<br>STEL: 150 ppm<br>STEL: 500 mg/m³<br>A* | TWA: 50 ppm<br>iho* |
| Chemical name                 | France         | Germany TRGS                        | Germany DFG   | Greece  | Hungary             |
| Dimethly Sulfoxide<br>67-68-5 | -              | TWA: 50 ppm<br>TWA: 160 mg/m³<br>H* | TWA: 50 ppm<br>TWA: 160 mg/m³<br>Peak: 100 ppm<br>Peak: 320 mg/m³ | -   | -                   |
| Chemical name                 | Ireland        | Italy MDLPS                         | Italy AIDII   | Latvia  | Lithuania           |
| Dimethly Sulfoxide            | -              | -                                   | -   | -   | O*                  |

| 67-68-5                       |                      |  |   |  |   |               |  | TWA: 50 ppm<br>TWA: 150 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 500 mg/m <sup>3</sup> |
|-------------------------------|----------------------|--|---|--|---|---------------|--|---|
| Ammonium Sulfate<br>7783-20-2 |                      | -  | -   |  | -   | TWA: 0        | .02 mg/m <sup>3</sup>  | -   |
| Chemical name                 | Port                 | ugal   | Romania                                   | Slov                                   | akia 💮                                    | Slo           | venia  | Spain   |
| Dimethly Sulfoxide<br>67-68-5 |                      | -  | -   |  | -   | TWA:<br>STEL: | 60 mg/m <sup>3</sup><br>50 ppm<br>100 ppm<br>320 mg/m <sup>3</sup><br>K* | -   |
| Chemical name                 | Chemical name Sweden |  | veden                                     | Sv                                     | vitzerland                                |               | Uni  | ted Kingdom   |
| Dimethly Sulfoxide<br>67-68-5 |                      |  | NGV: 50 ppm<br>NGV: 150 mg/m <sup>3</sup> |  | TWA: 50 ppm<br>TWA: 160 mg/m <sup>3</sup> |               |  | -   |
|                               |                      | Vägledande KGV: 150 ppm<br>Vägledande KGV: 500 mg/m³<br>H* |   | STEL: 100 ppm<br>STEL: 320 mg/m³<br>H* |   |               |  |   |

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                               |
|--|------|--|--|
| Glycerol<br>56-81-5                      | -    | -  | 56 mg/m³ [5] [6]                         |
| Dimethly Sulfoxide<br>67-68-5            | -    | 200 mg/kg bw/day [4] [6]                             | 484 mg/m³ [4] [6]<br>265 mg/m³ [5] [6]   |
| Tris (Tris Base)<br>77-86-1              | -    | 166.7 mg/kg bw/day [4] [6]                           | 117.5 mg/m³ [4] [6]                      |
| Tetramethylammonium chloride 75-57-0     | -    | 0.4 mg/kg bw/day [4] [6]                             | 2.9 mg/m³ [4] [6]                        |
| Magnesium Sulfate<br>7487-88-9           | -    | 21.3 mg/kg bw/day [4] [6]                            | 37.6 mg/m³ [4] [6]                       |
| Potassium Chloride<br>7447-40-7          | -    | 303 mg/kg bw/day [4] [6]<br>910 mg/kg bw/day [4] [7] | 1064 mg/m³ [4] [6]<br>5320 mg/m³ [4] [7] |
| Ethylenediamine tetraacetic acid 60-00-4 | -    | -  | 1.5 mg/m³ [5] [6]<br>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                            |
|-------------------------------|---------------------------|--------|---------------------------------------|
| Glycerol<br>56-81-5           | 229 mg/kg bw/day [4] [6]  | -      | 33 mg/m³ [5] [6]                      |
| Dimethly Sulfoxide<br>67-68-5 | 60 mg/kg bw/day [4] [6]   | -      | 120 mg/m³ [4] [6]<br>47 mg/m³ [5] [6] |
| Tris (Tris Base)<br>77-86-1   | 8.3 mg/kg bw/day [4] [6]  | -      | 29 mg/m³ [4] [6]                      |
| Tetramethylammonium chloride  | 0.25 mg/kg bw/day [4] [6] | -      | 1.76 mg/m³ [4] [6]                    |

| Chemical name                    | Oral                      | Dermal                   | Inhalation         |
|----------------------------------|---------------------------|--------------------------|--------------------|
| 75-57-0                          |                           |                          |                    |
| Magnesium Sulfate<br>7487-88-9   | 12.8 mg/kg bw/day [4] [6] | -                        | 11.1 mg/m³ [4] [6] |
| Potassium Chloride               | 91 mg/kg bw/day [4] [6]   | 910 mg/kg bw/day [4] [6] | 273 mg/m³ [4] [6]  |
| 7447-40-7                        | 455 mg/kg bw/day [4] [7]  | 910 mg/kg bw/day [4] [7] | 1365 mg/m³ [4] [7] |
| Ethylenediamine tetraacetic acid | 25 mg/kg bw/day [4] [6]   | -                        | 0.6 mg/m³ [5] [6]  |
| 60-00-4                          |                           |                          | 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)**

| Chemical name                                  | Freshwater | Freshwater (intermittent release) | Marine water | Marine water (intermittent release) | Air |
|--|------------|-----------------------------------|--------------|-------------------------------------|-----|
| Glycerol<br>56-81-5                            | 0.885 mg/L | 8.85 mg/L                         | 0.0885 mg/L  | -                                   | -   |
| Dimethly Sulfoxide<br>67-68-5                  | 17 mg/L    | -                                 | 1.7 mg/L     | -                                   | -   |
| Tetramethylammonium chloride 75-57-0           | 0.6 µg/L   | 36 μg/L                           | 0.06 μg/L    | -                                   | -   |
| Magnesium Sulfate<br>7487-88-9                 | 0.68 mg/L  | 6.8 mg/L                          | 0.068 mg/L   | -                                   | -   |
| Potassium Chloride<br>7447-40-7                | 0.1 mg/L   | 1 mg/L                            | 0.1 mg/L     | -                                   | -   |
| Ethylenediamine<br>tetraacetic acid<br>60-00-4 | 2.2 mg/L   | 1.2 mg/L                          | 0.22 mg/L    | -                                   | -   |

| Chemical name                                  | Freshwater sediment       | Marine sediment           | Sewage treatment | Soil                | Food chain    |
|--|---------------------------|---------------------------|------------------|---------------------|---------------|
| Glycerol<br>56-81-5                            | 3.3 mg/kg sediment<br>dw  | 0.33 mg/kg<br>sediment dw | 1000 mg/L        | 0.141 mg/kg soil dw | -             |
| Dimethly Sulfoxide<br>67-68-5                  | 13.4 mg/kg<br>sediment dw | -                         | 11 mg/L          | 3.02 mg/kg soil dw  | 0.7 g/kg food |
| Tris (Tris Base)<br>77-86-1                    | -                         | -                         | 300 mg/L         | -                   | -             |
| Tetramethylammonium chloride 75-57-0           | 35 μg/kg sediment<br>dw   | 3.5 µg/kg sediment<br>dw  | 6 mg/L           | 6.6 µg/kg soil dw   | -             |
| Magnesium Sulfate<br>7487-88-9                 | -                         | -                         | 10 mg/L          | -                   | -             |
| Potassium Chloride<br>7447-40-7                | -                         | -                         | 10 mg/L          | -                   | -             |
| Ethylenediamine<br>tetraacetic acid<br>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.

**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.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**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 Mild.

Odor threshold No information available

Property Values Remarks • Method

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 215 °C

Decomposition temperature None known

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

D---- 0./

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

 ATEmix (oral)
 3,101.30 mg/kg

 ATEmix (dermal)
 10,482.20 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      |
|--------------------|---------------------|---------------------|----------------------|
| Dimethly Sulfoxide | = 28300 mg/kg (Rat) | = 40000 mg/kg (Rat) | > 5.33 mg/L (Rat)4 h |
| Ammonium Sulfate   | = 2840 mg/kg (Rat)  | > 2000 mg/kg (Rat)  | -                    |

#### 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.

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

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

| Chemical name      | Algae/aquatic plants | Fish  | Toxicity to microorganisms | Crustacea                             |
|--------------------|----------------------|---|----------------------------|---------------------------------------|
| Dimethly Sulfoxide | -                    | LC50: =34000mg/L (96h,<br>Pimephales promelas)<br>LC50: 33 - 37g/L (96h,<br>Oncorhynchus mykiss)<br>LC50: >40g/L (96h,<br>Lepomis macrochirus)<br>LC50: =41.7g/L (96h,<br>Cyprinus carpio)  | -                          | -                                     |
| Ammonium Sulfate   | -                    | LC50: =250mg/L (96h, Brachydanio rerio) LC50: =480mg/L (96h, Brachydanio rerio) LC50: =420mg/L (96h, Brachydanio rerio) LC50: =420mg/L (96h, Brachydanio rerio) LC50: =18mg/L (96h, Cyprinus carpio) LC50: 32.2 - 41.9mg/L (96h, Oncorhynchus mykiss) LC50: 5.2 - 8.2mg/L (96h, Oncorhynchus mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: 123 - 128mg/L (96h, Poecilia reticulata) LC50: =126mg/L (96h, Poecilia reticulata) | -                          | LC50: =14mg/L (48h,<br>Daphnia magna) |

## 12.2. Persistence and degradability

Persistence and degradability No information available.

## 12.3. Bioaccumulative potential

#### **Bioaccumulation**

**Component Information** 

| Chemical name      | Partition coefficient |
|--------------------|-----------------------|
| Dimethly Sulfoxide | -1.35                 |
| Ammonium Sulfate   | -5.1                  |

## 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         |
|--------------------|---------------------------------|
| Dimethly Sulfoxide | The substance is not PBT / vPvB |

Revision date 06-May-2023

Ammonium Sulfate 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

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**

|   | • |   |
|---|---|---|
| Δ |   | Δ |

products

IATA 14.1 UN number or ID number Not regulated 14.2 Extended Proper Shipping Not regulated

Name

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

14.6 Special precautions for user

**Special Provisions** None

**IMDG** 

14.1 UN number or ID number Not regulated Not regulated 14.2 Extended Proper Shipping

Name

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

14.6 Special precautions for user

**Special Provisions** 

14.7 Maritime transport in bulk No information available according to IMO instruments

RID

14.1 UN/ID No Not regulated Not regulated 14.2 Extended Proper Shipping Name

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

14.6 Special precautions for user

**Special Provisions** 

None

ADR

14.1 UN number or ID number Not regulated 14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardNot 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

#### **France**

#### Occupational Illnesses (R-463-3, France)

| Chemical name                | French RG number                   |  |
|------------------------------|------------------------------------|--|
| Dimethly Sulfoxide - 67-68-5 | RG 84                              |  |
| ·                            | RG 5,RG 14,RG 15,RG 15bis,RG 20bis |  |

#### **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)

| Chemical name                | Restricted substance per REACH | Substance subject to authorization per |
|------------------------------|--------------------------------|--|
|                              | Annex XVII                     | REACH Annex XIV                        |
| Dimethly Sulfoxide - 67-68-5 | 75.                            | -                                      |
| Ammonium Sulfate - 7783-20-2 | 65.                            | -                                      |

#### **Persistent Organic Pollutants**

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Biocidal Products Regulation (EU) No 528/2012 (BPR)

| Chemical name                | Biocidal Products Regulation (EU) No 528/2012 (BPR)   |  |
|------------------------------|---|--|
| Ammonium Sulfate - 7783-20-2 | Product-type 11: Preservatives for liquid-cooling and |  |
|                              | processing systems Product-type 12: Slimicides        |  |

#### **International Inventories**

**TSCA** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **DSL/NDSL** Contact supplier for inventory compliance status **EINECS/ELINCS** 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** Contact supplier for inventory compliance status AIIC **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

#### 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

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**End of Safety Data Sheet** 

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