



# Veratox® for Fumonisin 5/10

Kit Product

## Kit identification

Trade name : Veratox® for Fumonisin 5/10  
Product code : 8835  
Part Number(s) : 8835|700002620

## Details of the supplier of the Kit safety information sheet

Neogen Corporation  
620 Leshar Place  
48912 Lansing, Michigan  
United States of America  
T 800.234.5333  
[sds@neogen.com](mailto:sds@neogen.com), <https://www.neogen.com/>

## General information

Restrictions on use : Do not use kit components from one kit with any other kit.  
General description : This is a test kit that is comprised of several individual components, listed below, each of which may have its own Safety Data Sheet (SDS). Articles, and otherwise immobilized and inaccessible chemicals, do not have a Safety Data Sheet in this packet.

## Kit contents

| Name                                | GHS classification  |
|-------------------------------------|---|
| Fumonisin Multi-Level Controls 8810 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>STOT SE 1, H370 |
| Fumonisin-HRP Conjugate 8810        | Skin Sens. 1, H317  |
| K-Blue Advanced Plus TMB Substrate  | Not classified  |
| Red Stop Solution                   | Not classified  |
| Dilution Bottle (H2O)               | Not classified  |






## Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                  | IMDG         | IATA         | ADN          | RID          |
|--------------------------------------|--------------|--------------|--------------|--------------|
| <b>14.1. UN number or ID number</b>  |              |              |              |              |
| UN 3316                              | UN 3316      | UN 3316      | UN 3316      | UN 3316      |
| <b>14.2. UN proper shipping name</b> |              |              |              |              |
| CHEMICAL KIT                         | CHEMICAL KIT | Chemical kit | CHEMICAL KIT | CHEMICAL KIT |

# Veratox® for Fumonisin 5/10

## Kit Safety Information Sheet (SIS)

| ADR   | IMDG  | IATA  | ADN   | RID   |
|---|---|---|---|---|
| <b>Transport document description</b>   |   |   |   |   |
| UN 3316 CHEMICAL KIT, 9, (E)  | UN 3316 CHEMICAL KIT, 9   | UN 3316 Chemical kit, 9   | UN 3316 CHEMICAL KIT, 9   | UN 3316 CHEMICAL KIT, 9   |
| <b>14.3. Transport hazard class(es)</b>   |   |   |   |   |
| 9   | 9   | 9   | 9   | 9   |
|  |                            |  |  |  |
| <b>14.4. Packing group</b>  |   |   |   |   |
| Not applicable  | Not applicable  | Not applicable  | Not applicable  | Not applicable  |
| <b>14.5. Environmental hazards</b>  |   |   |   |   |
| Dangerous for the environment: No   | Dangerous for the environment: No<br>Marine pollutant: No<br>EmS-No. (Fire): F-A<br>EmS-No. (Spillage): S-P | Dangerous for the environment: No   | Dangerous for the environment: No   | Dangerous for the environment: No   |
| No supplementary information available  |   |   |   |   |

### Special precautions for user

#### Overland transport

|                               |                 |
|-------------------------------|-----------------|
| Classification code (ADR)     | : M11           |
| Special provisions (ADR)      | : 251, 340, 671 |
| Limited quantities (ADR)      | : See SP 251    |
| Excepted quantities (ADR)     | : See SP 340    |
| Packing instructions (ADR)    | : P901          |
| Transport category (ADR)      | : 2             |
| Tunnel restriction code (ADR) | : E             |

#### Transport by sea

|                             |            |
|-----------------------------|------------|
| Special provisions (IMDG)   | : 251, 340 |
| Limited quantities (IMDG)   | : SP251    |
| Excepted quantities (IMDG)  | : SP340    |
| Packing instructions (IMDG) | : P901     |
| Stowage category (IMDG)     | : A        |

#### Air transport

|  |             |
|--|-------------|
| PCA Excepted quantities (IATA)               | : E0        |
| PCA Limited quantities (IATA)                | : Y960      |
| PCA limited quantity max net quantity (IATA) | : 1kg       |
| PCA packing instructions (IATA)              | : 960       |
| PCA max net quantity (IATA)                  | : 10kg      |
| CAO packing instructions (IATA)              | : 960       |
| CAO max net quantity (IATA)                  | : 10kg      |
| Special provisions (IATA)                    | : A44, A163 |
| ERG code (IATA)                              | : 9L        |

#### Inland waterway transport

|                           |                 |
|---------------------------|-----------------|
| Classification code (ADN) | : M11           |
| Special provisions (ADN)  | : 251, 340, 671 |
| Limited quantities (ADN)  | : See SP 251    |

# Veratox® for Fumonisin 5/10

## Kit Safety Information Sheet (SIS)

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Excepted quantities (ADN) : See SP 340  
Equipment required (ADN) : PP  
Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : M11  
Special provisions (RID) : 251, 340, 671  
Limited quantities (RID) : see SP251  
Excepted quantities (RID) : see SP340  
Packing instructions (RID) : P901  
Transport category (RID) : See SP 671  
Hazard identification number (RID) : 90

### Maritime transport in bulk according to IMO instruments

Not applicable



# Fumonisin Multi-Level Controls

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 06/08/2025 Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Fumonisin Multi-Level Controls  
Type of product : Food Safety -- [Food Safety]

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

##### Relevant identified uses

Use of the substance/mixture : Laboratory chemicals  
Scientific research and development

##### Uses advised against

Restrictions on use : Do not use kit components from one kit with any other kit.

#### 1.3. Details of the supplier of the safety data sheet

Neogen Corporation  
620 Leshler Place  
48912 Lansing, Michigan  
United States of America  
T 800.234.5333  
[sds@neogen.com](mailto:sds@neogen.com), <https://www.neogen.com/>

#### 1.4. Emergency telephone number

Emergency number : 24 hours:  
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)  
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226  
Acute toxicity (oral), Category 4 H302  
Acute toxicity (inhalation:dust,mist) Category 4 H332  
Specific target organ toxicity – single exposure, Category 1 H370  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes damage to organs. Harmful if inhaled. Harmful if swallowed.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

Signal word (CLP) :

Danger

Contains :

Methanol

Hazard statements (CLP) :

H226 - Flammable liquid and vapour.  
H302+H332 - Harmful if swallowed or if inhaled.  
H370 - Causes damage to organs.

# Fumonisin Multi-Level Controls

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.  
P312 - Call a POISON CENTRE or doctor if you feel unwell.  
P321 - Specific treatment (see supplemental first aid instruction on this label).

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

| Component   |                    |
|---|--------------------|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | Methanol (67-56-1) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Methanol (67-56-1) |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name  | Product identifier  | %                | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|---|------------------|---|
| Methanol<br>substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PT, RO, SE, SI, SK, AL, IS, NO, MK, RS, CH, TR); substance with a Community workplace exposure limit | CAS-No.: 67-56-1<br>EC-No.: 200-659-6<br>EC Index-No.: 603-001-00-X | $\geq 10 - < 15$ | Flam. Liq. 2, H225<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation), H331<br>STOT SE 1, H370  |
| Thimerosal<br>substance with national workplace exposure limit(s) (BE, FR)  | CAS-No.: 54-64-8<br>EC-No.: 200-210-4<br>EC Index-No.: 080-004-00-7 | $< 0.1$          | Acute Tox. 3 (Oral), H301<br>Acute Tox. 1 (Dermal), H310<br>Acute Tox. 2 (Inhalation), H330<br>Acute Tox. 2 (Inhalation:dust,mist), H330<br>STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

### Specific concentration limits:

| Name       | Product identifier  | Specific concentration limits (%)  |
|------------|---|--|
| Methanol   | CAS-No.: 67-56-1<br>EC-No.: 200-659-6<br>EC Index-No.: 603-001-00-X | ( $3 \leq C < 10$ ) STOT SE 2; H371<br>( $10 \leq C < 100$ ) STOT SE 1; H370 |
| Thimerosal | CAS-No.: 54-64-8<br>EC-No.: 200-210-4<br>EC Index-No.: 080-004-00-7 | ( $0.1 \leq C < 100$ ) STOT RE 2; H373                                       |

Full text of H- and EUH-statements: see section 16

# Fumonisin Multi-Level Controls

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.         |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell. |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing.                                       |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.  |
| First-aid measures after ingestion    | : Rinse mouth. Call a poison center or a doctor if you feel unwell.   |
| Self protection of the first-aider    | : First aid workers will be equipped with suitable personal protective equipment.                                     |

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

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Symptoms/effects after inhalation   | : Harmful if inhaled.           |
| Symptoms/effects after skin contact | : None under normal conditions. |
| Symptoms/effects after eye contact  | : None under normal conditions. |
| Symptoms/effects after ingestion    | : Harmful if swallowed.         |

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

#### 5.2. Special hazards arising from the substance or mixture

|  |                                |
|--|--------------------------------|
| Fire hazard                                      | : Flammable liquid and vapour. |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

#### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

### SECTION 6: Accidental release measures

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

|                  |   |
|------------------|---|
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. |
|------------------|---|

##### For non-emergency personnel

|                      |  |
|----------------------|--|
| Protective equipment | : Wear recommended personal protective equipment.  |
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. |

##### For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so.   |

#### 6.2. Environmental precautions

Avoid release to the environment.

# Fumonisin Multi-Level Controls

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

- For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
- Storage temperature : 2 – 8 °C
- Packaging materials : Store always product in container of same material as original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

| Methanol (67-56-1)                                 |  |
|--|--|
| EU - Indicative Occupational Exposure Limit (IOEL) |  |
| Local name   | Methanol   |
| IOEL TWA   | 260 mg/m <sup>3</sup>  |
|  | 200 ppm  |
| Remark   | Skin   |
| Regulatory reference                               | COMMISSION DIRECTIVE 2006/15/EC  |
| Ireland - Occupational Exposure Limits             |  |
| Local name   | Methanol [Methyl alcohol]  |
| OEL TWA  | 260 mg/m <sup>3</sup>  |
|  | 200 ppm  |
| Remark   | IOELV (Indicative Occupational Exposure Limit Values), Skin (Substances which have the capacity to penetrate intact skin when they come in contact with it and be absorbed into the body. A substantial contribution to the total body burden via dermal exposure is possible) |

# Fumonisin Multi-Level Controls

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Methanol (67-56-1)                |  |
|-----------------------------------|--|
| Regulatory reference              | Chemical Agents Code of Practice 2024  |
| Ireland - Biological limit values |  |
| Local name                        | Methanol   |
| BMGV                              | 15 mg/l Parameter: methanol - Medium: urine - Sampling time: End of shift - Notations: B (Background), Ns (Non-specific) |
| Regulatory reference              | Biological Monitoring Guidelines (HSA, 2011)   |

## 8.2. Exposure controls

### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

Safety glasses

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

### Hand protection:

Protective gloves

### Respiratory protection

#### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|                           |                                |
|---------------------------|--------------------------------|
| Physical state            | : Liquid                       |
| Colour                    | : Clear.                       |
| Odour                     | : Slight. alcoholic.           |
| Odour threshold           | : Not available                |
| Melting point             | : Not applicable               |
| Freezing point            | : Not available                |
| Boiling point             | : Not available                |
| Flammability              | : Flammable liquid and vapour. |
| Lower explosion limit     | : Not available                |
| Upper explosion limit     | : Not available                |
| Flash point               | : Not available                |
| Auto-ignition temperature | : Not available                |
| Decomposition temperature | : Not available                |

# Fumonisin Multi-Level Controls

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|   |                     |
|---|---------------------|
| pH  | : Not available     |
| Viscosity, kinematic                            | : Not available     |
| Solubility                                      | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Vapour pressure                                 | : Not available     |
| Vapour pressure at 50°C                         | : Not available     |
| Density   | : Not available     |
| Relative density                                | : Not available     |
| Relative vapour density at 20°C                 | : Not available     |
| Particle characteristics                        | : Not applicable    |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

|                             |   |
|-----------------------------|---|
| Acute toxicity (oral)       | : Harmful if swallowed.   |
| Acute toxicity (dermal)     | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Inhalation:dust,mist: Harmful if inhaled.   |

| Fumonisin Multi-Level Controls |  |
|--------------------------------|--|
| ATE CLP (oral)                 | 1000 mg/kg bodyweight  |
| ATE CLP (dust,mist)            | 5 mg/l/4h  |
| Methanol (67-56-1)             |  |
| LD50 oral rat                  | 1187 – 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Experimental value, 15-35 % aqueous solution, Oral, 7 day(s)) |
| LD50 oral                      | 1400 mg/kg   |
| LD50 dermal rabbit             | 17100 mg/kg (Rabbit, Experimental value, Dermal)   |
| LD50 dermal                    | 15800 mg/kg  |
| LC50 Inhalation - Rat          | 128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))                   |

# Fumonisin Multi-Level Controls

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Thimerosal (54-64-8)              |   |
|-----------------------------------|---|
| LD50 oral                         | 75 mg/kg  |
| LC50 Inhalation - Rat             | 0.201 mg/l Source: GESTIS   |
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met) |
| Methanol (67-56-1)                |   |
| pH                                | No data available in the literature   |
| Thimerosal (54-64-8)              |   |
| pH                                | 6.7 (1 %)   |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met) |
| Methanol (67-56-1)                |   |
| pH                                | No data available in the literature   |
| Thimerosal (54-64-8)              |   |
| pH                                | 6.7 (1 %)   |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity                   | : Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met) |
| Methanol (67-56-1)                |   |
| LOAEL (animal/male, F0/P)         | 2340 mg/kg bodyweight Monkey, Male, 3 days, daily dose                              |
| STOT-single exposure              | : Causes damage to organs.  |
| Methanol (67-56-1)                |   |
| STOT-single exposure              | Causes damage to organs.  |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met) |
| Thimerosal (54-64-8)              |   |
| STOT-repeated exposure            | May cause damage to organs through prolonged or repeated exposure.                  |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met) |
| Methanol (67-56-1)                |   |
| Viscosity, kinematic              | 0.68 – 0.747 mm <sup>2</sup> /s   |
| Thimerosal (54-64-8)              |   |
| Viscosity, kinematic              | Not applicable (solid)  |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met)                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met)                                     |

# Fumonisin Multi-Level Controls

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Methanol (67-56-1)   |  |
|----------------------|--|
| LC50 - Fish [1]      | 15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)                                 |
| EC50 - Crustacea [1] | 18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect) |
| EC50 96h - Algae [1] | 22000 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)        |
| NOEC (chronic)       | 208 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| NOEC chronic fish    | 446.7 mg/l Test organisms (species): Pimephales promelas Duration: '28 d'  |

| Thimerosal (54-64-8) |  |
|----------------------|--|
| LC50 - Fish [1]      | 0.16 mg/l (96 h, Cyprinus carpio, Literature study, Mercury ion) |

### 12.2. Persistence and degradability

#### Fumonisin Multi-Level Controls

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

#### Methanol (67-56-1)

|                                 |  |
|---------------------------------|--|
| Persistence and degradability   | Readily biodegradable in the soil, Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0.6 – 1.1 g O <sub>2</sub> /g substance                            |
| Chemical oxygen demand (COD)    | 1.4 g O <sub>2</sub> /g substance                                  |
| ThOD                            | 1.5 g O <sub>2</sub> /g substance                                  |

#### Thimerosal (54-64-8)

|                               |                                     |
|-------------------------------|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |
|-------------------------------|-------------------------------------|

### 12.3. Bioaccumulative potential

#### Methanol (67-56-1)

|   |   |
|---|---|
| BCF - Fish [1]                                  | 1 – 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value) |
| Partition coefficient n-octanol/water (Log Pow) | -0.77 (Experimental value)  |
| Bioaccumulative potential                       | Low potential for bioaccumulation (BCF < 500).                                  |

#### Thimerosal (54-64-8)

|   |                                 |
|---|---------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -1.88 (Estimated value, KOWWIN) |
| Bioaccumulative potential                       | Not bioaccumulative.            |

### 12.4. Mobility in soil

#### Methanol (67-56-1)

|  |   |
|--|---|
| Mobility in soil   | 2.75 Source: HSDB                         |
| Surface tension  | No data available in the literature       |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | -0.89 – -0.21 (log Koc, Calculated value) |
| Ecology - soil   | Highly mobile in soil.                    |

#### Thimerosal (54-64-8)

|  |  |
|--|--|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.235 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
|--|--|

# Fumonisin Multi-Level Controls

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Thimerosal (54-64-8)

|                |                                       |
|----------------|---------------------------------------|
| Ecology - soil | Low potential for adsorption in soil. |
|----------------|---------------------------------------|

### 12.5. Results of PBT and vPvB assessment

#### Component

|   |                    |
|---|--------------------|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | Methanol (67-56-1) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Methanol (67-56-1) |

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |   |
|--|---|
| Regional waste regulation                  | : Disposal must be done according to official regulations.  |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.   |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.  |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.  |
| Additional information                     | : Flammable vapours may accumulate in the container. Do not re-use empty containers.  |
| HP Code                                    | : HP3 - "Flammable:"<br>– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;<br>– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;<br>– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;<br>– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;<br>– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;<br>– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.<br>HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.<br>HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure. |

## SECTION 14: Transport information






In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                      | IMDG                                     | IATA                                     | ADN                                      | RID                                      |
|--|--|--|--|--|
| <b>14.1. UN number or ID number</b>      |  |  |  |  |
| UN 1987                                  | UN 1987                                  | UN 1987                                  | UN 1987                                  | UN 1987                                  |
| <b>14.2. UN proper shipping name</b>     |  |  |  |  |
| ALCOHOLS, N.O.S. (10% Methanol solution) | ALCOHOLS, N.O.S. (10% Methanol solution) | Alcohols, n.o.s. (10% Methanol solution) | ALCOHOLS, N.O.S. (10% Methanol solution) | ALCOHOLS, N.O.S. (10% Methanol solution) |

# Fumonisin Multi-Level Controls

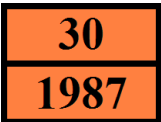
## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| ADR   | IMDG  | IATA  | ADN   | RID   |
|---|---|---|---|---|
| <b>Transport document description</b>   |   |   |   |   |
| UN 1987 ALCOHOLS, N.O.S. (10% Methanol solution), 3, III, (D/E)                   | UN 1987 ALCOHOLS, N.O.S. (10% Methanol solution), 3, III  | UN 1987 Alcohols, n.o.s. (10% Methanol solution), 3, III                          | UN 1987 ALCOHOLS, N.O.S. (10% Methanol solution), 3, III                            | UN 1987 ALCOHOLS, N.O.S. (10% Methanol solution), 3, III                            |
| <b>14.3. Transport hazard class(es)</b>   |   |   |   |   |
| 3   | 3   | 3   | 3   | 3   |
|  |                            |  |  |  |
| <b>14.4. Packing group</b>  |   |   |   |   |
| III   | III   | III   | III   | III   |
| <b>14.5. Environmental hazards</b>  |   |   |   |   |
| Dangerous for the environment: No   | Dangerous for the environment: No<br>Marine pollutant: No<br>EmS-No. (Fire): F-E<br>EmS-No. (Spillage): S-D | Dangerous for the environment: No   | Dangerous for the environment: No   | Dangerous for the environment: No   |
| No supplementary information available  |   |   |   |   |

### 14.6. Special precautions for user

#### Overland transport

|   |   |
|---|---|
| Classification code (ADR)                                 | : F1  |
| Special provisions (ADR)                                  | : 274, 601  |
| Limited quantities (ADR)                                  | : 5I  |
| Excepted quantities (ADR)                                 | : E1  |
| Packing instructions (ADR)                                | : P001, IBC03, LP01, R001   |
| Mixed packing provisions (ADR)                            | : MP19  |
| Portable tank and bulk container instructions (ADR)       | : T4  |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP29   |
| Tank code (ADR)   | : LGBF  |
| Vehicle for tank carriage                                 | : FL  |
| Transport category (ADR)                                  | : 3   |
| Special provisions for carriage - Packages (ADR)          | : V12   |
| Special provisions for carriage - Operation (ADR)         | : S2  |
| Hazard identification number (Kemler No.)                 | : 30  |
| Orange plates   | :  |

Tunnel restriction code (ADR) : D/E

#### Transport by sea

|                                 |              |
|---------------------------------|--------------|
| Special provisions (IMDG)       | : 223, 274   |
| Limited quantities (IMDG)       | : 5 L        |
| Excepted quantities (IMDG)      | : E1         |
| Packing instructions (IMDG)     | : P001, LP01 |
| IBC packing instructions (IMDG) | : IBC03      |
| Tank instructions (IMDG)        | : T4         |
| Tank special provisions (IMDG)  | : TP1, TP29  |
| Stowage category (IMDG)         | : A          |

# Fumonisin Multi-Level Controls

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Air transport

|  |            |
|--|------------|
| PCA Excepted quantities (IATA)               | : E1       |
| PCA Limited quantities (IATA)                | : Y344     |
| PCA limited quantity max net quantity (IATA) | : 10L      |
| PCA packing instructions (IATA)              | : 355      |
| PCA max net quantity (IATA)                  | : 60L      |
| CAO packing instructions (IATA)              | : 366      |
| CAO max net quantity (IATA)                  | : 220L     |
| Special provisions (IATA)                    | : A3, A180 |
| ERG code (IATA)                              | : 3L       |

### Inland waterway transport

|                                   |             |
|-----------------------------------|-------------|
| Classification code (ADN)         | : F1        |
| Special provisions (ADN)          | : 274, 601  |
| Limited quantities (ADN)          | : 5 L       |
| Excepted quantities (ADN)         | : E1        |
| Carriage permitted (ADN)          | : T         |
| Equipment required (ADN)          | : PP, EX, A |
| Ventilation (ADN)                 | : VE01      |
| Number of blue cones/lights (ADN) | : 0         |

### Rail transport

|   |                           |
|---|---------------------------|
| Classification code (RID)                                 | : F1                      |
| Special provisions (RID)                                  | : 274, 601                |
| Limited quantities (RID)                                  | : 5L                      |
| Excepted quantities (RID)                                 | : E1                      |
| Packing instructions (RID)                                | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (RID)                            | : MP19                    |
| Portable tank and bulk container instructions (RID)       | : T4                      |
| Portable tank and bulk container special provisions (RID) | : TP1, TP29               |
| Tank codes for RID tanks (RID)                            | : LGBF                    |
| Transport category (RID)                                  | : 3                       |
| Special provisions for carriage – Packages (RID)          | : W12                     |
| Colis express (express parcels) (RID)                     | : CE4                     |
| Hazard identification number (RID)                        | : 30                      |

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains substance(s) listed on the PIC list

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

# Fumonisin Multi-Level Controls

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|         |   |
|---------|---|
| ACGIH   | American Conference of Government Industrial Hygienists   |
| ADN     | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE     | Acute Toxicity Estimate   |
| BCF     | Bioconcentration factor   |
| BLV     | Biological limit value  |
| BOD     | Biochemical oxygen demand (BOD)   |
| CAS-No. | Chemical Abstract Service number  |
| CLP     | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| COD     | Chemical oxygen demand (COD)  |
| CSA     | Chemical safety assessment  |
| DMEL    | Derived Minimal Effect level  |
| DNEL    | Derived-No Effect Level   |
| EC-No.  | European Community number   |
| EC50    | Median effective concentration  |
| ED      | Endocrine disruptor   |
| EN      | European Standard   |
| EWC     | European waste catalogue  |
| IARC    | International Agency for Research on Cancer   |
| IATA    | International Air Transport Association   |
| IMDG    | International Maritime Dangerous Goods  |
| LC50    | Median lethal concentration   |
| LD50    | Median lethal dose  |
| LOAEL   | Lowest Observed Adverse Effect Level  |
| Log Kow | Partition coefficient n-octanol/water (Log Kow)   |
| Log Pow | Partition coefficient n-octanol/water (Log Pow)   |
| MAK     | maximum workplace concentration   |
| NOAEC   | No-Observed Adverse Effect Concentration  |

# Fumonisin Multi-Level Controls

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |  |
|-----------------------------|--|
| NOAEL                       | No-Observed Adverse Effect Level   |
| NOEC                        | No-Observed Effect Concentration   |
| N.O.S.                      | Not Otherwise Specified  |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit  |
| OSHA                        | Occupational Safety Health Administration                                    |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| PPE                         | Personal protection equipment  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| TF                          | Technical function   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| TWA                         | Time Weighted Average  |
| VOC                         | Volatile Organic Compounds   |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| UFI                         | Unique Formula Identifier  |

| Full text of H- and EUH-statements:    |   |
|--|---|
| Acute Tox. 1 (Dermal)                  | Acute toxicity (dermal), Category 1                               |
| Acute Tox. 2 (Inhalation)              | Acute toxicity (inhal.), Category 2                               |
| Acute Tox. 2<br>(Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2                  |
| Acute Tox. 3 (Dermal)                  | Acute toxicity (dermal), Category 3                               |
| Acute Tox. 3 (Inhalation)              | Acute toxicity (inhal.), Category 3                               |
| Acute Tox. 3 (Oral)                    | Acute toxicity (oral), Category 3                                 |
| Aquatic Acute 1                        | Hazardous to the aquatic environment – Acute Hazard, Category 1   |
| Aquatic Chronic 1                      | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Flam. Liq. 2                           | Flammable liquids, Category 2                                     |
| STOT RE 2                              | Specific target organ toxicity – Repeated exposure, Category 2    |
| STOT SE 1                              | Specific target organ toxicity – single exposure, Category 1      |
| STOT SE 2                              | Specific target organ toxicity – Single exposure, Category 2      |
| H225                                   | Highly flammable liquid and vapour.                               |
| H226                                   | Flammable liquid and vapour.                                      |
| H301                                   | Toxic if swallowed.   |
| H302                                   | Harmful if swallowed.   |
| H310                                   | Fatal in contact with skin.                                       |

# Fumonisin Multi-Level Controls

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| H311                                | Toxic in contact with skin.  |
| H330                                | Fatal if inhaled.  |
| H331                                | Toxic if inhaled.  |
| H332                                | Harmful if inhaled.  |
| H370                                | Causes damage to organs.   |
| H371                                | May cause damage to organs.  |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |
| H400                                | Very toxic to aquatic life.  |
| H410                                | Very toxic to aquatic life with long lasting effects.              |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Fumonisin-HRP Conjugate  
Type of product : Food Safety -- [Food Safety]

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

##### Relevant identified uses

Use of the substance/mixture : Laboratory chemicals  
Scientific research and development

##### Uses advised against

Restrictions on use : Do not use kit components from one kit with any other kit.

#### 1.3. Details of the supplier of the safety data sheet

Neogen Corporation  
620 Leshler Place  
48912 Lansing, Michigan  
United States of America  
T 800.234.5333  
[sds@neogen.com](mailto:sds@neogen.com), <https://www.neogen.com/>

#### 1.4. Emergency telephone number

Emergency number : 24 hours:  
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)  
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1 H317  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning  
Contains : Proprietary Enzyme

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.  
Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.

# Fumonisin-HRP Conjugate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

| Component   |                    |
|---|--------------------|
| Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 | Proprietary Enzyme |

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name               | Product identifier | %                | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------|--------------------|------------------|---|
| Proprietary Enzyme | -                  | $\geq 50 - < 75$ | Skin Sens. 1, H317  |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : If you feel unwell, seek medical advice.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.   |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.   |
| Self protection of the first-aider    | : First aid workers will be equipped with suitable personal protective equipment.  |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after inhalation   | : None under normal conditions.        |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact  | : None under normal conditions.        |
| Symptoms/effects after ingestion    | : None under normal conditions.        |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

# Fumonisin-HRP Conjugate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : No fire hazard.
- Explosion hazard : No direct explosion hazard.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

- Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

- General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

#### For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

#### For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid release to the environment.

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

- For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
- Methods for cleaning up : Take up liquid spill into absorbent material.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Technical measures : Keep in a cool, well-ventilated place away from heat.
- Storage conditions : Keep cool. Protect from sunlight.
- Storage temperature : 2 – 8 °C
- Packaging materials : Store always product in container of same material as original container.

### 7.3. Specific end use(s)

No additional information available

# Fumonisin-HRP Conjugate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

##### Appropriate engineering controls

###### Appropriate engineering controls:

Ensure good ventilation of the work station.

##### Personal protection equipment

###### Personal protective equipment:

Wear recommended personal protective equipment.

###### Personal protective equipment symbol(s):



##### Eye and face protection

###### Eye protection:

Safety glasses

##### Skin protection

###### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

##### Respiratory protection

###### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

##### Environmental exposure controls

###### Environmental exposure controls:

Avoid release to the environment.

### SECTION 9: Physical and chemical properties

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

|   |                        |
|---|------------------------|
| Physical state                                  | : Liquid               |
| Colour  | : Clear. Light yellow. |
| Odour   | : Odourless. Slight.   |
| Odour threshold                                 | : Not available        |
| Melting point                                   | : Not applicable       |
| Freezing point                                  | : Not available        |
| Boiling point                                   | : Not available        |
| Flammability                                    | : Non flammable.       |
| Lower explosion limit                           | : Not available        |
| Upper explosion limit                           | : Not available        |
| Flash point                                     | : Not available        |
| Auto-ignition temperature                       | : Not available        |
| Decomposition temperature                       | : Not available        |
| pH  | : Not available        |
| Viscosity, kinematic                            | : Not available        |
| Solubility                                      | : Soluble in water.    |
| Partition coefficient n-octanol/water (Log Kow) | : Not available        |
| Vapour pressure                                 | : Not available        |

# Fumonisin-HRP Conjugate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|                                 |                  |
|---------------------------------|------------------|
| Vapour pressure at 50°C         | : Not available  |
| Density                         | : Not available  |
| Relative density                | : Not available  |
| Relative vapour density at 20°C | : Not available  |
| Particle characteristics        | : Not applicable |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

|                                   |   |
|-----------------------------------|---|
| Acute toxicity (oral)             | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal)           | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation)       | : Not classified (Based on available data, the classification criteria are not met) |
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met) |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met) |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction.  |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity                   | : Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met) |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|                   |   |
|-------------------|---|
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
|-------------------|---|

# Fumonisin-HRP Conjugate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

### 12.2. Persistence and degradability

#### Fumonisin-HRP Conjugate

Persistence and degradability : Not rapidly degradable

#### Proprietary Enzyme

Persistence and degradability : Not rapidly degradable

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.  
Additional information : Do not re-use empty containers.  
HP Code : HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                     | IMDG          | IATA          | ADN            | RID            |
|---|---------------|---------------|----------------|----------------|
| <b>14.1. UN number or ID number</b>     |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |

# Fumonisin-HRP Conjugate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| ADR                                    | IMDG          | IATA          | ADN            | RID            |
|--|---------------|---------------|----------------|----------------|
| <b>14.5. Environmental hazards</b>     |               |               |                |                |
| Not applicable                         | Not regulated | Not regulated | Not applicable | Not applicable |
| No supplementary information available |               |               |                |                |

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

##### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# Fumonisin-HRP Conjugate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 16: Other information

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| ACGIH                       | American Conference of Government Industrial Hygienists   |
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                         | Acute Toxicity Estimate   |
| BCF                         | Bioconcentration factor   |
| BLV                         | Biological limit value  |
| BOD                         | Biochemical oxygen demand (BOD)   |
| CAS-No.                     | Chemical Abstract Service number  |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| COD                         | Chemical oxygen demand (COD)  |
| CSA                         | Chemical safety assessment  |
| DMEL                        | Derived Minimal Effect level  |
| DNEL                        | Derived-No Effect Level   |
| EC-No.                      | European Community number   |
| EC50                        | Median effective concentration  |
| ED                          | Endocrine disruptor   |
| EN                          | European Standard   |
| EWC                         | European waste catalogue  |
| IARC                        | International Agency for Research on Cancer   |
| IATA                        | International Air Transport Association   |
| IMDG                        | International Maritime Dangerous Goods  |
| LC50                        | Median lethal concentration   |
| LD50                        | Median lethal dose  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |
| Log Kow                     | Partition coefficient n-octanol/water (Log Kow)   |
| Log Pow                     | Partition coefficient n-octanol/water (Log Pow)   |
| MAK                         | maximum workplace concentration   |
| NOAEC                       | No-Observed Adverse Effect Concentration  |
| NOAEL                       | No-Observed Adverse Effect Level  |
| NOEC                        | No-Observed Effect Concentration  |
| N.O.S.                      | Not Otherwise Specified   |
| OECD                        | Organisation for Economic Co-operation and Development  |
| OEL                         | Occupational Exposure Limit   |
| OSHA                        | Occupational Safety Health Administration   |
| PBT                         | Persistent Bioaccumulative Toxic  |
| PNEC                        | Predicted No-Effect Concentration   |
| PPE                         | Personal protection equipment   |

# Fumonisin-HRP Conjugate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Abbreviations and acronyms:

|      |  |
|------|--|
| RID  | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS  | Safety Data Sheet  |
| STP  | Sewage treatment plant   |
| TF   | Technical function   |
| ThOD | Theoretical oxygen demand (ThOD)   |
| TLM  | Median Tolerance Limit   |
| TWA  | Time Weighted Average  |
| VOC  | Volatile Organic Compounds   |
| vPvB | Very Persistent and Very Bioaccumulative                                     |
| UFI  | Unique Formula Identifier  |

### Full text of H- and EUH-statements:

|              |                                      |
|--------------|--------------------------------------|
| Skin Sens. 1 | Skin sensitisation, Category 1       |
| H317         | May cause an allergic skin reaction. |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : K-Blue® Advanced Plus TMB Substrate  
Product code : 379210  
Type of product : Life Sciences -- [Life Sciences]  
Part Number(s) : 379210|379171||379175|379176|379177|379257|379xxx|700006518|700006523

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

##### Relevant identified uses

Use of the substance/mixture : Laboratory chemicals  
Scientific research and development

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

Neogen Corporation  
620 Leshler Place  
48912 Lansing, Michigan  
United States of America  
T 800.234.5333  
[sds@neogen.com](mailto:sds@neogen.com), <https://www.neogen.com/>

#### 1.4. Emergency telephone number

Emergency number : 24 hours:  
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)  
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

| Component   |                              |
|---|------------------------------|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | Dimethyl sulfoxide (67-68-5) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Dimethyl sulfoxide (67-68-5) |

# K-Blue® Advanced Plus TMB Substrate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

| Name  | Product identifier                    | %          | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---------------------------------------|------------|---|
| Dimethyl sulfoxide<br>substance with national workplace exposure limit(s)<br>(AT, DE, DK, EE, FI, LT, SE, SI, MK, CH) | CAS-No.: 67-68-5<br>EC-No.: 200-664-3 | ≥ 5 – < 10 | Not classified  |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : If you feel unwell, seek medical advice.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                  |
| First-aid measures after skin contact | : Wash skin with plenty of water.   |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.  |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                            |
| Self protection of the first-aider    | : First aid workers will be equipped with suitable personal protective equipment. |

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

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Symptoms/effects after inhalation   | : None under normal conditions. |
| Symptoms/effects after skin contact | : None under normal conditions. |
| Symptoms/effects after eye contact  | : None under normal conditions. |
| Symptoms/effects after ingestion    | : None under normal conditions. |

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

#### 5.2. Special hazards arising from the substance or mixture

|  |                                |
|--|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

#### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

# K-Blue® Advanced Plus TMB Substrate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 6: Accidental release measures

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

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.  
Absorb spillage to prevent material damage.

##### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area.

##### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Keep cool. Protect from sunlight.  
Packaging materials : Store always product in container of same material as original container.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

##### Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

##### Personal protection equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

# K-Blue® Advanced Plus TMB Substrate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

Safety glasses

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

### Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|   |                         |
|---|-------------------------|
| Physical state                                  | : Liquid                |
| Colour  | : Clear.                |
| Appearance                                      | : Liquid.               |
| Odour   | : Odourless.            |
| Odour threshold                                 | : Not available         |
| Melting point                                   | : Not applicable        |
| Freezing point                                  | : Not available         |
| Boiling point                                   | : Not available         |
| Flammability                                    | : Non flammable.        |
| Lower explosion limit                           | : Not available         |
| Upper explosion limit                           | : Not available         |
| Flash point                                     | : Not available         |
| Auto-ignition temperature                       | : Not available         |
| Decomposition temperature                       | : Not available         |
| pH  | : $\geq 3.1 - \leq 3.4$ |
| Viscosity, kinematic                            | : Not available         |
| Solubility                                      | : Soluble in water.     |
| Partition coefficient n-octanol/water (Log Kow) | : Not available         |
| Vapour pressure                                 | : Not available         |
| Vapour pressure at 50°C                         | : Not available         |
| Density   | : Not available         |
| Relative density                                | : Not available         |
| Relative vapour density at 20°C                 | : Not available         |
| Particle characteristics                        | : Not applicable        |

### 9.2. Other information

No additional information available

# K-Blue® Advanced Plus TMB Substrate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

| Dimethyl sulfoxide (67-68-5)      |   |
|-----------------------------------|---|
| LD50 oral rat                     | 28300 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 oral                         | 14500 mg/kg   |
| LD50 dermal rat                   | 40000 mg/kg bodyweight (Rat, Male / female, Experimental value, Dermal, 14 day(s))                                  |
| LD50 dermal                       | 40000 mg/kg   |
| LC50 Inhalation - Rat             | > 5.33 mg/l Source: ECHA  |
| LC50 Inhalation - Rat (Dust/Mist) | 5.33 mg/l/4h  |

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH:  $\geq 3.1 - \leq 3.4$

| Dimethyl sulfoxide (67-68-5) |                                     |
|------------------------------|-------------------------------------|
| pH                           | No data available in the literature |

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH:  $\geq 3.1 - \leq 3.4$

| Dimethyl sulfoxide (67-68-5) |                                     |
|------------------------------|-------------------------------------|
| pH                           | No data available in the literature |

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)  
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)  
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)  
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)  
STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)  
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

# K-Blue® Advanced Plus TMB Substrate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Dimethyl sulfoxide (67-68-5)                     |  |
|--|--|
| LOAEC (inhalation, rat, dust/mist/fume, 90 days) | 2.783 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: EPA OPPTS 870.3465 (90-Day Inhalation Toxicity) |
| NOAEL (oral, rat, 90 days)                       | ≥ 1000 mg/kg bodyweight Animal: rat, Guideline: other:   |

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

| Dimethyl sulfoxide (67-68-5) |   |
|------------------------------|---|
| Viscosity, kinematic         | 1.95 mm <sup>2</sup> /s (20 °C, Calculated) |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

| Dimethyl sulfoxide (67-68-5) |   |
|------------------------------|---|
| LC50 - Fish [1]              | > 25 g/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Nominal concentration)                      |
| EC50 - Crustacea [1]         | 25 g/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)                                 |
| ErC50 algae                  | 17 g/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration) |

### 12.2. Persistence and degradability

| K-Blue® Advanced Plus TMB Substrate |                        |
|-------------------------------------|------------------------|
| Persistence and degradability       | Not rapidly degradable |

| Dimethyl sulfoxide (67-68-5)  |                                     |
|-------------------------------|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |

### 12.3. Bioaccumulative potential

| Dimethyl sulfoxide (67-68-5)                    |                                  |
|---|----------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -1.4 (Experimental value, 20 °C) |
| Bioaccumulative potential                       | Not bioaccumulative.             |

### 12.4. Mobility in soil

| Dimethyl sulfoxide (67-68-5)                               |  |
|--|--|
| Surface tension  | 43.5 mN/m (20 °C, 100 vol %)                         |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.64 (log Koc, SRC PCKOCWIN v1.66, Calculated value) |
| Ecology - soil   | Highly mobile in soil.                               |

# K-Blue® Advanced Plus TMB Substrate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 12.5. Results of PBT and vPvB assessment

| Component   |                              |
|---|------------------------------|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | Dimethyl sulfoxide (67-68-5) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Dimethyl sulfoxide (67-68-5) |

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |   |
|--|---|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.   |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                     | IMDG          | IATA          | ADN            | RID            |
|---|---------------|---------------|----------------|----------------|
| <b>14.1. UN number or ID number</b>     |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| No supplementary information available  |               |               |                |                |

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not regulated

#### Air transport

Not regulated

# K-Blue® Advanced Plus TMB Substrate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Inland waterway transport

Not applicable

### Rail transport

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

##### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|       |   |
|-------|---|
| ACGIH | American Conference of Government Industrial Hygienists   |
| ADN   | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR   | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE   | Acute Toxicity Estimate   |
| BCF   | Bioconcentration factor   |
| BLV   | Biological limit value  |

# K-Blue® Advanced Plus TMB Substrate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |  |
|-----------------------------|--|
| BOD                         | Biochemical oxygen demand (BOD)  |
| CAS-No.                     | Chemical Abstract Service number   |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  |
| COD                         | Chemical oxygen demand (COD)   |
| CSA                         | Chemical safety assessment   |
| DMEL                        | Derived Minimal Effect level   |
| DNEL                        | Derived-No Effect Level  |
| EC-No.                      | European Community number  |
| EC50                        | Median effective concentration   |
| ED                          | Endocrine disruptor  |
| EN                          | European Standard  |
| EWC                         | European waste catalogue   |
| IARC                        | International Agency for Research on Cancer                                  |
| IATA                        | International Air Transport Association                                      |
| IMDG                        | International Maritime Dangerous Goods                                       |
| LC50                        | Median lethal concentration  |
| LD50                        | Median lethal dose   |
| LOAEL                       | Lowest Observed Adverse Effect Level   |
| Log Kow                     | Partition coefficient n-octanol/water (Log Kow)                              |
| Log Pow                     | Partition coefficient n-octanol/water (Log Pow)                              |
| MAK                         | maximum workplace concentration  |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level   |
| NOEC                        | No-Observed Effect Concentration   |
| N.O.S.                      | Not Otherwise Specified  |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit  |
| OSHA                        | Occupational Safety Health Administration                                    |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| PPE                         | Personal protection equipment  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| TF                          | Technical function   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| TWA                         | Time Weighted Average  |
| VOC                         | Volatile Organic Compounds   |

# K-Blue® Advanced Plus TMB Substrate

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |  |
|-----------------------------|--|
| vPvB                        | Very Persistent and Very Bioaccumulative |
| UFI                         | Unique Formula Identifier                |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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

### 1.1. Product identifier

Product form : Mixture  
Trade name : Red Stop Solution  
Product code : 301210  
Type of product : Life Sciences -- [Life Sciences]  
Part Number(s) : 301210|301471|301473|301474|301475|301476|700006516

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

#### Relevant identified uses

Use of the substance/mixture : Laboratory chemicals  
Scientific research and development

### 1.3. Details of the supplier of the safety data sheet

Neogen Corporation  
620 Leshar Place  
48912 Lansing, Michigan  
United States of America  
T 800.234.5333  
[sds@neogen.com](mailto:sds@neogen.com), <https://www.neogen.com/>

### 1.4. Emergency telephone number

Emergency number : 24 hours:  
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)  
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

# Red Stop Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : If you feel unwell, seek medical advice.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                  |
| First-aid measures after skin contact | : Wash skin with plenty of water.   |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.  |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                            |
| Self protection of the first-aider    | : First aid workers will be equipped with suitable personal protective equipment. |

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

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Symptoms/effects after inhalation   | : None under normal conditions. |
| Symptoms/effects after skin contact | : None under normal conditions. |
| Symptoms/effects after eye contact  | : None under normal conditions. |
| Symptoms/effects after ingestion    | : None under normal conditions. |

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

#### 5.2. Special hazards arising from the substance or mixture

|  |                                |
|--|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

#### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

### SECTION 6: Accidental release measures

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

|                  |  |
|------------------|--|
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.<br>Absorb spillage to prevent material damage. |
|------------------|--|

##### For non-emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Ventilate spillage area.                        |

##### For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so.   |

#### 6.2. Environmental precautions

Avoid release to the environment.

# Red Stop Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

|                         |   |
|-------------------------|---|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material.   |
| Other information       | : Dispose of materials or solid residues at an authorized site.   |

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment.                  |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

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

|                     |   |
|---------------------|---|
| Technical measures  | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : Keep cool. Protect from sunlight.   |
| Packaging materials | : Store always product in container of same material as original container. |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

##### Personal protective equipment symbol(s):



#### Eye and face protection

##### Eye protection:

Safety glasses

#### Skin protection

##### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

# Red Stop Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|   |                     |
|---|---------------------|
| Physical state                                  | : Liquid            |
| Colour  | : Red.              |
| Appearance                                      | : Liquid.           |
| Odour   | : Odourless.        |
| Odour threshold                                 | : Not available     |
| Melting point                                   | : Not applicable    |
| Freezing point                                  | : Not available     |
| Boiling point                                   | : Not available     |
| Flammability                                    | : Non flammable.    |
| Lower explosion limit                           | : Not available     |
| Upper explosion limit                           | : Not available     |
| Flash point                                     | : Not available     |
| Auto-ignition temperature                       | : Not available     |
| Decomposition temperature                       | : Not available     |
| pH  | : 8.7               |
| Viscosity, kinematic                            | : Not available     |
| Solubility                                      | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Vapour pressure                                 | : Not available     |
| Vapour pressure at 50°C                         | : Not available     |
| Density   | : Not available     |
| Relative density                                | : Not available     |
| Relative vapour density at 20°C                 | : Not available     |
| Particle characteristics                        | : Not applicable    |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

# Red Stop Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

|                                   |  |
|-----------------------------------|--|
| Acute toxicity (oral)             | : Not classified (Based on available data, the classification criteria are not met)            |
| Acute toxicity (dermal)           | : Not classified (Based on available data, the classification criteria are not met)            |
| Acute toxicity (inhalation)       | : Not classified (Based on available data, the classification criteria are not met)            |
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met)<br>pH: 8.7 |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met)<br>pH: 8.7 |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)            |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)            |
| Carcinogenicity                   | : Not classified (Based on available data, the classification criteria are not met)            |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met)            |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met)            |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met)            |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met)            |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met)                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met)                                     |

### 12.2. Persistence and degradability

#### Red Stop Solution

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

# Red Stop Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|  |  |
|--|--|
| Regional waste regulation                  | : Disposal must be done according to official regulations.   |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.  |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.   |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.   |
| Additional information                     | : Do not re-use empty containers.  |
| HP Code                                    | : HP12 - "Release of an acute toxic gas:" waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid |

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                     | IMDG          | IATA          | ADN            | RID            |
|---|---------------|---------------|----------------|----------------|
| <b>14.1. UN number or ID number</b>     |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| No supplementary information available  |               |               |                |                |

#### 14.6. Special precautions for user

##### Overland transport

Not applicable

##### Transport by sea

Not regulated

##### Air transport

Not regulated

##### Inland waterway transport

Not applicable

##### Rail transport

Not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# Red Stop Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 15: Regulatory information

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

##### EU-Regulations

###### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

###### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

###### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

###### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

###### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

###### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

###### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

###### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

###### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

##### National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| ACGIH                       | American Conference of Government Industrial Hygienists   |
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                         | Acute Toxicity Estimate   |
| BCF                         | Bioconcentration factor   |
| BLV                         | Biological limit value  |
| BOD                         | Biochemical oxygen demand (BOD)   |
| CAS-No.                     | Chemical Abstract Service number  |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| COD                         | Chemical oxygen demand (COD)  |
| CSA                         | Chemical safety assessment  |
| DMEL                        | Derived Minimal Effect level  |

# Red Stop Solution

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |  |
|-----------------------------|--|
| DNEL                        | Derived-No Effect Level  |
| EC-No.                      | European Community number  |
| EC50                        | Median effective concentration   |
| ED                          | Endocrine disruptor  |
| EN                          | European Standard  |
| EWC                         | European waste catalogue   |
| IARC                        | International Agency for Research on Cancer                                  |
| IATA                        | International Air Transport Association                                      |
| IMDG                        | International Maritime Dangerous Goods                                       |
| LC50                        | Median lethal concentration  |
| LD50                        | Median lethal dose   |
| LOAEL                       | Lowest Observed Adverse Effect Level   |
| Log Kow                     | Partition coefficient n-octanol/water (Log Kow)                              |
| Log Pow                     | Partition coefficient n-octanol/water (Log Pow)                              |
| MAK                         | maximum workplace concentration  |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level   |
| NOEC                        | No-Observed Effect Concentration   |
| N.O.S.                      | Not Otherwise Specified  |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit  |
| OSHA                        | Occupational Safety Health Administration                                    |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| PPE                         | Personal protection equipment  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| TF                          | Technical function   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| TWA                         | Time Weighted Average  |
| VOC                         | Volatile Organic Compounds   |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| UFI                         | Unique Formula Identifier  |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Dilution Bottle (H2O)  
Product code : 301699  
Type of product : Food Safety -- [Food Safety]  
Part Number(s) : 301699|8871|8872|8873|400000541|400000542|400000543|700006553

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

##### Relevant identified uses

Use of the substance/mixture : Laboratory chemicals  
Scientific research and development

#### 1.3. Details of the supplier of the safety data sheet

Neogen Corporation  
620 Leshar Place  
48912 Lansing, Michigan  
United States of America  
T 800.234.5333  
[sds@neogen.com](mailto:sds@neogen.com), <https://www.neogen.com/>

#### 1.4. Emergency telephone number

Emergency number : 24 hours:  
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)  
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

# Dilution Bottle (H2O)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : If you feel unwell, seek medical advice.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                  |
| First-aid measures after skin contact | : Wash skin with plenty of water.   |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.  |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                            |
| Self protection of the first-aider    | : First aid workers will be equipped with suitable personal protective equipment. |

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

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Symptoms/effects after inhalation   | : None under normal conditions. |
| Symptoms/effects after skin contact | : None under normal conditions. |
| Symptoms/effects after eye contact  | : None under normal conditions. |
| Symptoms/effects after ingestion    | : None under normal conditions. |

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

#### 5.2. Special hazards arising from the substance or mixture

|  |                                |
|--|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

#### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

### SECTION 6: Accidental release measures

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

|                  |  |
|------------------|--|
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.<br>Absorb spillage to prevent material damage. |
|------------------|--|

##### For non-emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Ventilate spillage area.                        |

##### For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so.   |

#### 6.2. Environmental precautions

Avoid release to the environment.

# Dilution Bottle (H2O)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

|                         |   |
|-------------------------|---|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material.   |
| Other information       | : Dispose of materials or solid residues at an authorized site.   |

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment.                  |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

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

|                     |   |
|---------------------|---|
| Technical measures  | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : Keep cool. Protect from sunlight.   |
| Packaging materials | : Store always product in container of same material as original container. |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

##### Personal protective equipment symbol(s):



#### Eye and face protection

##### Eye protection:

Safety glasses

#### Skin protection

##### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

# Dilution Bottle (H2O)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|   |                            |
|---|----------------------------|
| Physical state                                  | : Liquid                   |
| Colour  | : Clear.                   |
| Appearance                                      | : Liquid.                  |
| Odour   | : Odourless.               |
| Odour threshold                                 | : Not available            |
| Melting point                                   | : 0 °C                     |
| Freezing point                                  | : Not available            |
| Boiling point                                   | : 100 °C                   |
| Flammability                                    | : Non flammable.           |
| Lower explosion limit                           | : Not available            |
| Upper explosion limit                           | : Not available            |
| Flash point                                     | : Not available            |
| Auto-ignition temperature                       | : Not available            |
| Decomposition temperature                       | : Not available            |
| pH  | : 6 – 8                    |
| Viscosity, kinematic                            | : 0.899 mm <sup>2</sup> /s |
| Viscosity, dynamic                              | : 0.897 cP                 |
| Solubility                                      | : Soluble in water.        |
| Partition coefficient n-octanol/water (Log Kow) | : Not available            |
| Vapour pressure                                 | : Not available            |
| Vapour pressure at 50°C                         | : Not available            |
| Density   | : 8.33 lb/gal              |
| Relative density                                | : 1                        |
| Relative vapour density at 20°C                 | : Not available            |
| Particle characteristics                        | : Not applicable           |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

# Dilution Bottle (H2O)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

|                                   |  |
|-----------------------------------|--|
| Acute toxicity (oral)             | : Not classified (Based on available data, the classification criteria are not met)              |
| Acute toxicity (dermal)           | : Not classified (Based on available data, the classification criteria are not met)              |
| Acute toxicity (inhalation)       | : Not classified (Based on available data, the classification criteria are not met)              |
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met)<br>pH: 6 – 8 |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met)<br>pH: 6 – 8 |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)              |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)              |
| Carcinogenicity                   | : Not classified (Based on available data, the classification criteria are not met)              |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met)              |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met)              |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met)              |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met)              |

#### Dilution Bottle (H2O)

|                      |                          |
|----------------------|--------------------------|
| Viscosity, kinematic | 0.899 mm <sup>2</sup> /s |
|----------------------|--------------------------|

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met)                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met)                                     |

### 12.2. Persistence and degradability

#### Dilution Bottle (H2O)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

# Dilution Bottle (H2O)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |   |
|--|---|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.   |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                     | IMDG          | IATA          | ADN            | RID            |
|---|---------------|---------------|----------------|----------------|
| <b>14.1. UN number or ID number</b>     |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |               |               |                |                |
| Not applicable                          | Not regulated | Not regulated | Not applicable | Not applicable |
| No supplementary information available  |               |               |                |                |

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# Dilution Bottle (H2O)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 15: Regulatory information

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

##### EU-Regulations

###### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

###### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

###### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

###### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

###### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

###### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

###### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

###### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

###### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

#### Abbreviations and acronyms:

|         |   |
|---------|---|
| ACGIH   | American Conference of Government Industrial Hygienists   |
| ADN     | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE     | Acute Toxicity Estimate   |
| BCF     | Bioconcentration factor   |
| BLV     | Biological limit value  |
| BOD     | Biochemical oxygen demand (BOD)   |
| CAS-No. | Chemical Abstract Service number  |
| CLP     | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| COD     | Chemical oxygen demand (COD)  |
| CSA     | Chemical safety assessment  |
| DMEL    | Derived Minimal Effect level  |
| DNEL    | Derived-No Effect Level   |
| EC-No.  | European Community number   |

# Dilution Bottle (H2O)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |  |
|-----------------------------|--|
| EC50                        | Median effective concentration   |
| ED                          | Endocrine disruptor  |
| EN                          | European Standard  |
| EWC                         | European waste catalogue   |
| IARC                        | International Agency for Research on Cancer                                  |
| IATA                        | International Air Transport Association                                      |
| IMDG                        | International Maritime Dangerous Goods                                       |
| LC50                        | Median lethal concentration  |
| LD50                        | Median lethal dose   |
| LOAEL                       | Lowest Observed Adverse Effect Level   |
| Log Kow                     | Partition coefficient n-octanol/water (Log Kow)                              |
| Log Pow                     | Partition coefficient n-octanol/water (Log Pow)                              |
| MAK                         | maximum workplace concentration  |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level   |
| NOEC                        | No-Observed Effect Concentration   |
| N.O.S.                      | Not Otherwise Specified  |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit  |
| OSHA                        | Occupational Safety Health Administration                                    |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| PPE                         | Personal protection equipment  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| TF                          | Technical function   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| TWA                         | Time Weighted Average  |
| VOC                         | Volatile Organic Compounds   |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| UFI                         | Unique Formula Identifier  |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.