**Safety Data Sheet (SDS)** According to the REACH Regulation (EC) No. 1907/2006

**Issuing Date:** 2018-01-19 **Revision Date:** 2023-12-15 **Version:** 3

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

### 1.1. Product identifier

**Product No** 91959

**Product name** PathScan® RP Phospho-p90RSK (Thr359) Sandwich ELISA Kit

**Kit Component**
93491: Phospho-p90RSK (Thr359) Rabbit mAb Coated Microwells
40783: RSK Rabbit Detection mAb
13515: HRP Diluent
7002: STOP Solution
7004: TMB Substrate
9801: ELISA Wash Buffer (20X)
9803: Cell Lysis Buffer (10X)

**Hazardous Components**
**13515: HRP Diluent**
**7002: STOP Solution**
**9801: ELISA Wash Buffer (20X)**
**9803: Cell Lysis Buffer (10X)**

**Contains**

| Chemical name | Index No. | CAS No |
|---|---|---|
| polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether (10 - 20%) | Not Listed | 9002-93-1 |
| maleic acid (0 - 10%) | 607-095-00-3 | 110-16-7 |
| tetrasodium pyrophosphate, decahydrate (0 - 10%) | Not Listed | 13472-36-1 |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) (0 - 10%) | 613-167-00-5 | 55965-84-9 |

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

**Identified uses** For Research Use Only. Not for Use in Diagnostic Procedures.

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

**Importer**
Cell Signaling Technology Europe B.V.
Dellaertweg 9b
2316 WZ Leiden
The Netherlands
TEL: +31 (0)71 7200 200
FAX: +31 (0)71 891 0019

**Manufacturer**
Cell Signaling Technology, Inc.
3 Trask Lane
Danvers, MA 01923
United States
TEL: +1 978 867 2300
FAX: +1 978 867 2400

**Website** www.cellsignal.com
**E-mail Address** info@cellsignal.eu

**1.4. Emergency telephone number**

**CHEMTREC** 24 hours a day, 7 days a week, 365 days a year
+1 703 527 3887 (INTERNATIONAL) +1 800 424 9300 (NORTH AMERICA)

**Europe** 112

## SECTION 2: Hazards identification

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

**Regulation (EC) No. 1272/2008**

Classification and label elements described below are inclusive of all hazards of the combined kit. The most severe classifications are listed for each endpoint. Refer to individual kit component SDS for classification and label elements for each component present in the kit.

| | |
|---|---|
| **Skin corrosion/irritation** | Category 1 - (H314) |
| **Serious eye damage/eye irritation** | Category 1 - (H318) |
| **Skin sensitization** | Category 1 - (H317) |
| **Chronic aquatic toxicity** | Category 3 - (H412) |

**2.2. Label elements**

**Signal word**
Danger

**Hazard statement(s)**
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statement(s)**
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

**2.3. Other hazards**

This kit contains one or more components considered a treated article that incorporates a biocidal product as a preservative with the following active ingredient: Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT).

Polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether (CAS no. 9002-93-1) is a suspected endocrine disruptor. Endocrine

disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4).

*For the full text of the H-phrases & EUH-phrases mentioned in this Section, see Section 16*

## SECTION 3. Composition/information on ingredients

**Kit Component** **13515: HRP Diluent**

WARNING: May cause an allergic skin reaction.

| Chemical name | CAS No | Weight-% | EC No | Classification (1272/2008) | REACH Registration Number |
|---|---|---|---|---|---|
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | 0.005-0.025 | - | Acute Tox. 3 (H301)<br>Acute Tox. 2 (H310)<br>Acute Tox. 3 (H311)<br>Acute Tox. 2 (H330)<br>Skin Corr. 1C (H314)<br>Skin Corr. 1B (H314)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1A (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)<br>(EUH071) | no data available |

This product is considered a treated article that incorporates a biocidal product as a preservative with the following active ingredient: Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

**Kit Component** **7002: STOP Solution**

DANGER: Causes severe skin burns and eye damage. May cause an allergic skin reaction.

| Chemical name | CAS No | Weight-% | EC No | Classification (1272/2008) | REACH Registration Number |
|---|---|---|---|---|---|
| maleic acid | 110-16-7 | 3-7 | 203-742-5 | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1 (H317)<br>STOT SE 3 (H335) | no data available |

**Kit Component** **9801: ELISA Wash Buffer (20X)**

WARNING: May cause an allergic skin reaction.

| Chemical name | CAS No | Weight-% | EC No | Classification (1272/2008) | REACH Registration Number |
|---|---|---|---|---|---|
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | 0.005-0.025 | - | Acute Tox. 3 (H301)<br>Acute Tox. 2 (H310)<br>Acute Tox. 3 (H311)<br>Acute Tox. 2 (H330)<br>Skin Corr. 1C (H314)<br>Skin Corr. 1B (H314)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1A (H317) | no data available |

| | | | | | |
|---|---|---|---|---|---|
| | | | | Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)<br>(EUH071) | |

This product is considered a treated article that incorporates a biocidal product as a preservative with the following active ingredient: Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

**Kit Component** **9803: Cell Lysis Buffer (10X)**

DANGER: Harmful to aquatic life with long lasting effects. Causes serious eye damage. Causes skin irritation.

| Chemical name | CAS No | Weight-% | EC No | Classification (1272/2008) | REACH Registration Number |
|---|---|---|---|---|---|
| polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether | 9002-93-1 | 10 | - | Acute Tox. 4(H302)<br>Eye Dam. 1(H318)<br>Aquatic Chronic 2 (H411) | no data available |
| tetrasodium pyrophosphate, decahydrate | 13472-36-1 | 0.1-1 | - | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>STOT SE 3 (H335) | no data available |

Polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether is a suspected endocrine disruptor

**Kit Component** **93491: Phospho-p90RSK (Thr359) Rabbit mAb Coated Microwells**
**40783: RSK Rabbit Detection mAb**
**7004: TMB Substrate**

These products do not contain substances at concentrations requiring disclosure under (EC) No. 1907/2006 (REACH).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General advice** Use first aid treatment according to the nature of the injury. When symptoms persist or in all cases of doubt seek medical advice.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

**Skin contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation or rash occurs: Get medical advice/attention.

**Eye contact** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Ingestion** Get medical attention. Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

**Protection of first-aiders** Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

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

Contains kit components which may cause the following effects, refer to individual component SDSs for full information on symptoms. Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Contains an animal derived biological. May produce an allergic reaction in susceptible individuals. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands

and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

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

**Notes to physician** Treat symptomatically.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Carbon dioxide ($CO_2$)
Foam
Water spray
Dry powder

**Unsuitable Extinguishing Media** No information available

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

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** Avoid contact with skin, eyes and clothing. Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**For emergency responders** Use personal protection recommended in Section 8.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**6.2. Environmental precautions**

Do not allow material to contaminate ground water system. Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

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

**Methods for cleaning up** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

**6.4. Reference to other sections**

See Sections 8 & 13 for additional information.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery.

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

Keep away from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

Use as a laboratory reagent.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Occupational exposure limit values | | | | | |
|---|---|---|---|---|---|
| **Chemical name** | **European Union** | **United Kingdom** | **France** | **Spain** | **Germany** |
| tetrasodium pyrophosphate, decahydrate | | STEL 15 mg/m³<br>TWA 5 mg/m³ | TWA 5 mg/m³ | TWA 5 mg/m³ | |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | | | | | Ceiling / Peak: 0.4 mg/m³<br>TWA: 0.2 mg/m³ |
| **Chemical name** | **Italy** | **Portugal** | **Netherlands** | **Finland** | **Denmark** |
| tetrasodium pyrophosphate, decahydrate | | | | | TWA 5 mg/m³ |
| **Chemical name** | **Austria** | **Switzerland** | **Poland** | **Norway** | **Ireland** |
| tetrasodium pyrophosphate, decahydrate | STEL 10 mg/m³<br>TWA 5 mg/m³ | TWA 5 mg/m³ | | TWA 5 mg/m³<br>STEL 10 mg/m³ | TWA 5 mg/m³ |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | TWA 0.05 mg/m³<br>Sh/Sah** | SS-C**<br>S+<br>TWA 0.2 mg/m³<br>STEL 0.4 mg/m³ | | | |

### 8.2. Exposure controls

**Appropriate engineering controls**
Showers, eyewash stations, and ventilation systems

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

| | |
|---|---|
| **Eye/face protection** | Tightly fitting safety goggles |
| **Skin protection** | Wear protective gloves and protective clothing |
| **Hand protection** | Impervious gloves |
| **Other** | Chemical resistant apron Boots Impervious clothing Impervious gloves |
| **Respiratory protection** | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators No special protective equipment required |

**Environmental Exposure Controls**
No information available

## SECTION 9. Physical and chemical properties

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

Information on the known physical chemical properties of each component within Kit are given below. If not included, information is either not available or not applicable. Refer to individual kit component SDS for further information.

| | |
|---|---|
| **Kit Component** | **93491: Phospho-p90RSK (Thr359) Rabbit mAb Coated Microwells** |
| Physical state | Solid |
| Appearance | Microwell Plate |
| **Kit Component** | **40783: RSK Rabbit Detection mAb** |
| Physical state | Solid |
| Appearance | Powder, Lyophilized |
| Color | Red |
| **Kit Component** | **13515: HRP Diluent** |
| Physical state | Liquid |
| Appearance | Clear |
| Color | Red |
| pH | 7.4 (20 °C) |
| **Kit Component** | **7002: STOP Solution** |
| Physical state | Liquid |
| Appearance | Clear |
| Color | Colorless |
| pH | 1.2 (20 °C) |
| **Kit Component** | **7004: TMB Substrate** |
| Physical state | Liquid |
| Appearance | Clear |
| Color | Light yellow |
| pH | 3.3-3.8 (20 °C) |
| **Kit Component** | **9801: ELISA Wash Buffer (20X)** |
| Physical state | Liquid |
| Appearance | Clear |
| Color | Colorless |
| pH | 6.4 (20 °C) |
| **Kit Component** | **9803: Cell Lysis Buffer (10X)** |
| Physical state | Liquid |
| Appearance | Clear |
| Color | Colorless |
| pH | 7.5 (20 °C) |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous polymerization** Hazardous polymerization does not occur.
**Hazardous reactions** None under normal processing

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Exposure to air or moisture over prolonged periods. Over a period of time, sodium azide may react with copper, lead, brass, or solder in plumbing systems to form an accumulation of the HIGHLY EXPLOSIVE compounds of lead azide & copper azide.

### 10.5. Incompatible materials

Metals, Strong oxidizing agents, strong acids, and strong bases.

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors

## SECTION 11: Toxicological information

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

**Product Information**
Refer to kit component SDS for full toxicological information. This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxicological and physiological properties of this compound is not well defined.

**Component Information**

| Chemical name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether | = 1800 mg/kg (Rat) | - | - |
| maleic acid | 708 mg/kg ( Rat ) | 1,560 mg/kg ( Rabbit ) | > 0.72 mg/L ( Rat ) 1h |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) | = 53 mg/kg (Rat) = 481 mg/kg (Rat) 232 - 249 mg/kg (Rat) = 120 mg/kg (Rat) | = 200 mg/kg ( Rabbit ) | = 1.23 mg/L ( Rat ) 4 h = 0.11 mg/L ( Rat ) 4 h |

**Information on likely routes of exposure**

**Inhalation**

**Kit Component** **40783: RSK Rabbit Detection mAb**
Inhalation May cause allergic respiratory reaction.

**Kit Component** **13515: HRP Diluent**
Inhalation Avoid breathing vapors or mists. May cause irritation of respiratory tract.

**Kit Component** **7002: STOP Solution**
Inhalation Aerosol expected to be irritating based on components.

**Kit Component** **9801: ELISA Wash Buffer (20X)**
Inhalation Avoid breathing vapors or mists. May cause irritation of respiratory tract.

**Eye contact**

| | |
|---|---|
| **Kit Component** | **13515: HRP Diluent** |
| Eye contact | Contact with eyes may cause irritation |
| **Kit Component** | **7002: STOP Solution** |
| Eye contact | May cause irreversible damage to eyes |
| **Kit Component** | **9801: ELISA Wash Buffer (20X)** |
| Eye contact | Expected to be an irritant based on components |
| **Kit Component** | **9803: Cell Lysis Buffer (10X)** |
| Eye contact | Expected to be an irritant based on components |

**Skin contact**

| | |
|---|---|
| **Kit Component** | **40783: RSK Rabbit Detection mAb** |
| Skin contact | Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. |
| **Kit Component** | **13515: HRP Diluent** |
| Skin contact | Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. |
| **Kit Component** | **7002: STOP Solution** |
| Skin contact | Corrosive to skin. Prolonged contact with skin is harmful. |
| **Kit Component** | **9801: ELISA Wash Buffer (20X)** |
| Skin contact | Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Expected to be an irritant based on components. |

**Ingestion**

| | |
|---|---|
| **Kit Component** | **7002: STOP Solution** |
| Ingestion | Ingestion causes burns of the upper digestive and respiratory tract. Harmful if swallowed |
| **Kit Component** | **9801: ELISA Wash Buffer (20X)** |
| Ingestion | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Symptoms**

Contains kit components which may cause the following effects, refer to individual component SDSs for full information on symptoms. Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Contains an animal derived biological. May produce an allergic reaction in susceptible individuals. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

**Skin and Eye Corrosion/Irritation**

| | |
|---|---|
| **Kit Component** | **7002: STOP Solution** |
| Serious eye damage/eye irritation | Risk of serious damage to eyes |
| Skin corrosion/irritation | Causes burns |

| | |
|---|---|
| **Kit Component** | **9801: ELISA Wash Buffer (20X)** |
| Serious eye damage/eye irritation | Causes serious eye irritation |
| Skin corrosion/irritation | Causes skin irritation |

| | |
|---|---|
| **Kit Component** | **9803: Cell Lysis Buffer (10X)** |
| Serious eye damage/eye irritation | Irritating to eyes |

**Sensitization**

| | |
|---|---|
| **Kit Component** | **40783: RSK Rabbit Detection mAb** |
| Respiratory Sensitization | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin Sensitization | May cause skin sensitization |

| | |
|---|---|
| **Kit Component** | **7002: STOP Solution** |
| Skin Sensitization | May cause skin sensitization |

| | |
|---|---|
| **Kit Component** | **13515: HRP Diluent** |
| Skin Sensitization | Product is or contains a sensitizer. May cause an allergic skin reaction |

| | |
|---|---|
| **Kit Component** | **9801: ELISA Wash Buffer (20X)** |
| Skin Sensitization | Product is or contains a sensitizer. May cause an allergic skin reaction |

**Mutagenic effects**

| | |
|---|---|
| **Kit Component** | **7002: STOP Solution** |
| Mutagenic effects | Not mutagenic in AMES Test |

**Carcinogenic effects** No component of this product present at levels greater than or equal to 0.1% are known or suspected carcinogens.

**Reproductive toxicity** No information available.

**Systemic Target Organ Toxicity (STOT)**

| | |
|---|---|
| **Kit Component** | **7002: STOP Solution** |
| STOT - repeated exposure | May cause damage to organs through prolonged or repeated exposure |
| STOT - single exposure | Respiratory system |

**Aspiration Hazard** No information available.

**11.2. Information on other hazards**

**Other adverse effects** No information available.

## SECTION 12: Ecological information

**12.1. Toxicity**

**Product Information**

| | |
|---|---|
| **Kit Component** | **7002: STOP Solution** |
| Ecotoxicity | Toxic to aquatic life |

| | |
|---|---|
| **Kit Component** | **9801: ELISA Wash Buffer (20X)** |
| Ecotoxicity | Harmful to aquatic life with long lasting effects |

**Component Information**

| Chemical name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|---|---|---|---|
| polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether | - | LC50 8.9 mg/l (Pimephales promelas) 96 h | EC50 26 mg/l (Daphnia) 48 h |
| maleic acid | - | LC50 5 mg/L (Pimephales promelas) 96 h | EC50 250 - 400 mg/L (Daphnia magna) 48 h |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) | EC50 0.11 - 0.16 mg/L (Pseudokirchneriella subcapitata) 72 h EC50 0.31 mg/L (Anabaena flos-aquae) 120 h EC50 0.03 - 0.13 mg/L (Pseudokirchneriella subcapitata) 96 h | LC50 1.6 mg/L (Oncorhynchus mykiss) 96 h | EC50 4.71 mg/L (Daphnia magna) 48 h EC50 0.71 - 0.99 mg/L (Daphnia magna) 48 h EC50 0.12 - 0.3 mg/L (Daphnia magna) 48 h |

**12.2. Persistence and degradability**

| | |
|---|---|
| **Kit Component** | **7002: STOP Solution** |
| Persistence and degradability | Product is biodegradable |

| | |
|---|---|
| **Kit Component** | **9801: ELISA Wash Buffer (20X)** |
| Persistence and degradability | Not readily biodegradable |

**12.3. Bioaccumulative potential**

| | |
|---|---|
| **Kit Component** | **7002: STOP Solution** |
| Bioaccumulation | Not likely to bioaccumulate |

| | |
|---|---|
| **Kit Component** | **9801: ELISA Wash Buffer (20X)** |
| Bioaccumulation | Not likely to bioaccumulate |

| Chemical name | Octanol-Water Partition Coefficient |
|---|---|
| maleic acid | 0.32 |

**12.4. Mobility in soil**

| | |
|---|---|
| **Kit Component** | **7002: STOP Solution** |
| Mobility | Will likely be mobile in the environment due to its water solubility |

| | |
|---|---|
| **Kit Component** | **9801: ELISA Wash Buffer (20X)** |
| Mobility | Will likely be mobile in the environment due to its water solubility |

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

No information available.

**12.6. Endocrine disrupting properties**

| Chemical name | EU - Endocrine Disruptors Candidate List | EU - Endocrine Disruptors - Evaluated Substances | Japan - Endocrine Disruptor Information |
|---|---|---|---|
| polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether | Endocrine disrupting properties, Article 57f - environment | - | - |

**12.7. Other adverse effects**

No information available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Waste from residues / unused products** Dispose of in accordance with local regulations.

**Contaminated packaging** Do not re-use empty containers.

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

## SECTION 14: Transport information

This material is subject to regulation as a hazardous material for shipping:

**IMDG/IMO**

**14.1 UN number** UN3265
**14.2 UN proper shipping name** Corrosive liquid, acidic, organic, n.o.s. (maleic acid)
**14.3 Transport hazard class(es)** 8
**14.4 Packing group** III
**14.5 Environmental hazards** None
**14.6 Special precautions for user** None
**14.7 Maritime transport in bulk according to IMO instruments** Not regulated

**ADR/RID**

**14.1 UN number** UN3265
**14.2 UN proper shipping name** Corrosive liquid, acidic, organic, n.o.s. (maleic acid)
**14.3 Transport hazard class(es)** 8
**14.4 Packing group** III
**14.5 Environmental hazards** None
**14.6 Special precautions for user** None

**IATA**

**14.1 UN number** UN3265
**14.2 UN proper shipping name** Corrosive liquid, acidic, organic, n.o.s. (maleic acid)
**14.3 Transport hazard class(es)** 8
**14.4 Packing group** III
**14.5 Environmental hazards** None
**14.6 Special precautions for user** None

## SECTION 15: Regulatory information

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

**Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)**

| Chemical name | Candidate List of Substances of Very High Concern for Authorization Information | REACH Annex XVII |
|---|---|---|
| polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether (10 - 20%) | Reason for inclusion Endocrine disrupting properties, Article 57f - environment | - |

**SEVESO Directive Information**

This product does not contain substances identified in the SEVESO Directive.

**International inventories**

| | |
|---|---|
| **TSCA 8(b)** | - |
| **DSL/NDSL** | - |
| **EINECS/ELINCS** | - |
| **ENCS** | - |
| **IECSC** | - |
| **KECL** | - |
| **PICCS** | - |
| **AICS** | - |

**International inventories legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AICS** - Australian Inventory of Chemical Substances

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out

## SECTION 16: Other information

**Full text of H-Statements referred to under Sections 2 and 3**

H300 - Fatal if swallowed
H301 - Toxic if swallowed
H302 - Harmful if swallowed
H310 - Fatal in contact with skin
H311 - Toxic in contact with skin
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H330 - Fatal if inhaled
H335 - May cause respiratory irritation
H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects
EUH032 - Contact with acids liberates very toxic gas
EUH071 - Corrosive to the respiratory tract

**Classification procedure:** Calculation method. Bridging principle "Dilution".
**Issuing Date:** 2018-01-19
**Revision Date:** 2023-12-15

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**