

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

**Issuing Date:** 2018-04-10

**Revision Date:** 2024-11-07

**Version:** 2

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

### **1.1. Product identifier**

**Product No** 5492  
**Product name** BrdU Cell Proliferation Chemiluminescent Assay Kit  
**Kit Component**  
32375: Fixing/denaturing Solution (1X)  
94079: BrdU Mouse Detection mAb  
34709: Anti-mouse IgG, HRP-Linked Antibody  
13339: Detection Antibody Diluent  
48969: 20X Wash Buffer  
75953: BrdU  
13515: HRP Diluent  
84850: Luminol/Enhancer Solution  
42552: Stable Peroxide Buffer

### **Hazardous Components**

**13515: HRP Diluent**  
**32375: Fixing/denaturing Solution (1X)**  
**34709: Anti-mouse IgG, HRP-Linked Antibody**

### **Contains**

| <b>Chemical name</b>   | <b>Index No.</b> | <b>CAS No</b> |
|--|------------------|---------------|
| ethanol (70 - 80%)   | 603-002-00-5     | 64-17-5       |
| sodium azide (0 - 10%)   | 011-004-00-7     | 26628-22-8    |
| reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (0 - 10%) | 613-167-00-5     | 55965-84-9    |
| Ethylene glycol (1-3)  | 603-027-00-1     | 107-21-1      |

### **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**

| <b>Importer</b>  | <b>Manufacturer</b>   |
|--|---|
| Cell Signaling Technology Europe B.V.<br>Dellaertweg 9b<br>2316 WZ Leiden<br>The Netherlands<br>TEL: +31 (0)71 7200 200<br>FAX: +31 (0)71 891 0019 | Cell Signaling Technology, Inc.<br>3 Trask Lane<br>Danvers, MA 01923<br>United States<br>TEL: +1 978 867 2300<br>FAX: +1 978 867 2400 |

**Website** [www.cellsignal.com](http://www.cellsignal.com)  
**E-mail Address** [info@cellsignal.eu](mailto: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

|                                   |                     |
|-----------------------------------|---------------------|
| Skin corrosion/irritation         | Category 1 - (H314) |
| Serious eye damage/eye irritation | Category 1 - (H318) |
| Skin sensitization                | Category 1 - (H317) |
| Flammable liquids                 | Category 2 - (H225) |

**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.  
 H225 - Highly flammable liquid and vapor.

**Precautionary statement(s)**

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
 P233 - Keep container tightly closed.  
 P240 - Ground/Bond container and receiving equipment.  
 P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
 P242 - Use only non-sparking tools.  
 P243 - Take precautionary measures against static discharge.  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
 P264 - Wash face, hands and any exposed skin thoroughly after handling.  
 P272 - Contaminated work clothing should not be allowed out of the workplace.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 - Immediately call a POISON CENTER or doctor/physician.  
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.  
 P363 - Wash contaminated clothing before reuse.  
 P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
 P403 + P235 - Store in a well-ventilated place. Keep cool.  
 P405 - Store locked up.

## 5492 BrdU Cell Proliferation Chemiluminescent Assay Kit

P501 - Dispose of contents/container to an approved waste disposal plant.

### 2.3. Other hazards

No information available.

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 32375: Fixing/denaturing Solution (1X)

DANGER: Highly flammable liquid and vapor. Causes severe skin burns and eye damage.

| Chemical name | CAS No  | Weight-% | EC No     | Classification (1272/2008) | REACH Registration Number |
|---------------|---------|----------|-----------|----------------------------|---------------------------|
| ethanol       | 64-17-5 | 60-70    | 200-578-6 | Flam. Liq. 2 (H225)        | no data available         |

### Kit Component 34709: Anti-mouse IgG, HRP-Linked Antibody

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 and 2-methyl-2H-isothiazol-3-one | 55965-84-9 | 0.005-0.025 | -     | Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Acute Tox. 2 (H310)<br>Acute Tox. 2 (H330)<br>Skin Corr. 1B (H314)<br>Skin Corr. 1C (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         |

### 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 and 2-methyl-2H-isothiazol-3-one | 55965-84-9 | 0.005-0.025 | -     | Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Acute Tox. 2 (H310)<br>Acute Tox. 2 (H330)<br>Skin Corr. 1B (H314)<br>Skin Corr. 1C (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         |

## 5492 BrdU Cell Proliferation Chemiluminescent Assay Kit

### Kit Component 13339: Detection Antibody Diluent

| Chemical name | CAS No     | Weight-% | EC No     | Classification (1272/2008)  | REACH Registration Number |
|---------------|------------|----------|-----------|---|---------------------------|
| sodium azide  | 26628-22-8 | <0.1     | 247-852-1 | Acute Tox. 2 (H300)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)<br>(EUH032) | no data available         |

### Kit Component 94079: BrdU Mouse Detection mAb

| Chemical name | CAS No     | Weight-% | EC No     | Classification (1272/2008)  | REACH Registration Number |
|---------------|------------|----------|-----------|---|---------------------------|
| sodium azide  | 26628-22-8 | <0.1     | 247-852-1 | Acute Tox. 2 (H300)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)<br>(EUH032) | no data available         |

### Kit Component 84850: Luminol/Enhancer Solution

| Chemical name   | CAS No   | Weight-% | EC No     | Classification (1272/2008) | REACH Registration Number |
|-----------------|----------|----------|-----------|----------------------------|---------------------------|
| Ethylene glycol | 107-21-1 | 1-3      | 203-473-3 | Acute Tox. 4 (H302)        | no data available         |

### Kit Component 75953: BrdU 48969: 20X Wash Buffer 42552: Stable Peroxide Buffer

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

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                       |  |
|-----------------------|--|
| <b>General advice</b> | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.  |
| <b>Inhalation</b>     | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.                                  |
| <b>Skin contact</b>   | Immediate medical attention is required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.   |
| <b>Eye contact</b>    | Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  |
| <b>Ingestion</b>      | Do not induce vomiting without medical advice. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if exposed or you feel unwell. |

**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. Significant esophageal or gastrointestinal tract irritation or burns may occur following ingestion. 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. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**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. CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam  
**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire

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

Vapors may travel to source of ignition and flash back. 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** Evacuate personnel to safe areas. Remove all sources of ignition. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use personal protective equipment. Avoid contact with skin, eyes and clothing.  
**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Local authorities should be advised if significant spillages cannot be contained. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**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.

**6.4. Reference to other sections**

See Sections 8 & 13 for additional information.

**SECTION 7: Handling and storage**

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## 5492 BrdU Cell Proliferation Chemiluminescent Assay Kit

### 7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

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

Keep away from open flames, hot surfaces and sources of ignition. 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  |
| ethanol  |   | STEL 3000 ppm<br>STEL 5760 mg/m <sup>3</sup><br>TWA 1000 ppm<br>TWA 1920 mg/m <sup>3</sup>   | TWA 1000 ppm<br>TWA 1900 mg/m <sup>3</sup><br>STEL 5000 ppm<br>STEL 9500 mg/m <sup>3</sup>                 | STEL 1000 ppm<br>STEL 1910 mg/m <sup>3</sup>  | TWA: 200 ppm<br>TWA: 380 mg/m <sup>3</sup><br>Skin<br>Ceiling / Peak: 800 ppm<br>Ceiling / Peak: 1520 mg/m <sup>3</sup>                            |
| sodium azide   | TWA 0.1 mg/m <sup>3</sup><br>STEL 0.3 mg/m <sup>3</sup><br>S*                                 | STEL 0.3 mg/m <sup>3</sup><br>TWA 0.1 mg/m <sup>3</sup><br>Skin  | TWA 0.1 mg/m <sup>3</sup><br>STEL 0.3 mg/m <sup>3</sup><br>P*  | TWA 0.1 mg/m <sup>3</sup><br>STEL 0.3 mg/m <sup>3</sup><br>S*                               | TWA: 0.2 mg/m <sup>3</sup><br>Ceiling / Peak: 0.4 mg/m <sup>3</sup>  |
| reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one |   |  |  |   | Ceiling / Peak: 0.4 mg/m <sup>3</sup><br>TWA: 0.2 mg/m <sup>3</sup>  |
| Ethylene glycol  | TWA 20 ppm<br>TWA 52 mg/m <sup>3</sup><br>STEL 40 ppm<br>STEL 104 mg/m <sup>3</sup><br>S*     | STEL 40 ppm<br>STEL 104 mg/m <sup>3</sup><br>STEL 30 mg/m <sup>3</sup><br>TWA 10 mg/m <sup>3</sup><br>TWA 20 ppm<br>TWA 52 mg/m <sup>3</sup><br>Skin | TWA 20 ppm<br>TWA 52 mg/m <sup>3</sup><br>STEL 40 ppm<br>STEL 104 mg/m <sup>3</sup><br>P*                  | TWA 20 ppm<br>TWA 52 mg/m <sup>3</sup><br>STEL 40 ppm<br>STEL 104 mg/m <sup>3</sup><br>S*   | TWA: 10 ppm<br>TWA: 26 mg/m <sup>3</sup><br>Skin<br>Ceiling / Peak: 20 ppm<br>Ceiling / Peak: 52 mg/m <sup>3</sup><br>H*                           |
| Chemical name  | Italy   | Portugal   | Netherlands  | Finland   | Denmark  |
| ethanol  |   | STEL 1000 ppm<br>C(A3)   | Huid*<br>STEL 1000 ppm<br>STEL 1900 mg/m <sup>3</sup><br>TWA 137 ppm<br>TWA 260 mg/m <sup>3</sup>          | TWA 1000 ppm<br>TWA 1900 mg/m <sup>3</sup><br>STEL 1300 ppm<br>STEL 2500 mg/m <sup>3</sup>  | TWA 1000 ppm<br>TWA 1900 mg/m <sup>3</sup><br>STEL 2000 ppm<br>STEL 3800 mg/m <sup>3</sup>   |
| sodium azide   | TWA 0.1 mg/m <sup>3</sup><br>STEL 0.3 mg/m <sup>3</sup><br>Pelle*                             | TWA 0.1 mg/m <sup>3</sup><br>STEL 0.3 mg/m <sup>3</sup><br>Ceiling 0.29 mg/m <sup>3</sup><br>Ceiling 0.11 ppm<br>C(A4)<br>P*                         | Huid*<br>STEL 0.3 mg/m <sup>3</sup><br>TWA 0.1 mg/m <sup>3</sup>   | TWA 0.1 mg/m <sup>3</sup><br>STEL 0.3 mg/m <sup>3</sup><br>iho*                             | TWA 0.1 mg/m <sup>3</sup><br>STEL 0.3 mg/m <sup>3</sup><br>H*  |
| Ethylene glycol  | TWA 20 ppm<br>TWA 52 mg/m <sup>3</sup><br>STEL 40 ppm<br>STEL 104 mg/m <sup>3</sup><br>Pelle* | TWA 20 ppm<br>TWA 52 mg/m <sup>3</sup><br>STEL 40 ppm<br>STEL 104 mg/m <sup>3</sup><br>Ceiling 100 mg/m <sup>3</sup><br>C(A4)<br>P*                  | Huid*<br>STEL 40 ppm<br>STEL 104 mg/m <sup>3</sup><br>TWA 52 mg/m <sup>3</sup><br>TWA 10 mg/m <sup>3</sup> | TWA 20 ppm<br>TWA 50 mg/m <sup>3</sup><br>STEL 40 ppm<br>STEL 100 mg/m <sup>3</sup><br>iho* | TWA 10 ppm<br>TWA 26 mg/m <sup>3</sup><br>TWA 10 mg/m <sup>3</sup><br>STEL 104 mg/m <sup>3</sup><br>STEL 40 ppm<br>STEL 20 mg/m <sup>3</sup><br>H* |
| Chemical name  | Austria   | Switzerland  | Poland   | Norway  | Ireland  |

## 5492 BrdU Cell Proliferation Chemiluminescent Assay Kit

|  |  |  |   |   |   |
|--|--|--|---|---|---|
| ethanol  | STEL 2000 ppm<br>STEL 3800 mg/m <sup>3</sup><br>TWA 1000 ppm<br>TWA 1900 mg/m <sup>3</sup> | SS-C**<br>TWA 500 ppm<br>TWA 960 mg/m <sup>3</sup><br>STEL 1000 ppm<br>STEL 1920 mg/m <sup>3</sup> | TWA 1900 mg/m <sup>3</sup>                              | TWA 500 ppm<br>TWA 950 mg/m <sup>3</sup><br>STEL 625 ppm<br>STEL 1187.5 mg/m <sup>3</sup> | STEL 1000 ppm   |
| sodium azide   | H*<br>STEL 0.3 mg/m <sup>3</sup><br>TWA 0.1 mg/m <sup>3</sup>                              | TWA 0.2 mg/m <sup>3</sup><br>STEL 0.4 mg/m <sup>3</sup>  | TWA 0.1 mg/m <sup>3</sup><br>STEL 0.3 mg/m <sup>3</sup> | TWA 0.1 mg/m <sup>3</sup><br>STEL 0.3 mg/m <sup>3</sup>                                   | TWA 0.1 mg/m <sup>3</sup><br>STEL 0.3 mg/m <sup>3</sup><br>Skin                             |
| reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one | TWA 0.05 mg/m <sup>3</sup><br>Sh/Sah**   | SS-C**<br>S+<br>TWA 0.2 mg/m <sup>3</sup><br>STEL 0.4 mg/m <sup>3</sup>                            |   |   |   |
| Ethylene glycol  | H*<br>STEL 20 ppm<br>STEL 52 mg/m <sup>3</sup><br>TWA 10 ppm<br>TWA 26 mg/m <sup>3</sup>   | SS-C**<br>H*<br>TWA 10 ppm<br>TWA 26 mg/m <sup>3</sup><br>STEL 20 ppm<br>STEL 52 mg/m <sup>3</sup> | TWA 15 mg/m <sup>3</sup><br>STEL 50 mg/m <sup>3</sup>   | TWA 20 ppm<br>TWA 52 mg/m <sup>3</sup><br>S*<br>STEL 104 mg/m <sup>3</sup><br>STEL 40 ppm | TWA 20 ppm<br>TWA 52 mg/m <sup>3</sup><br>STEL 40 ppm<br>STEL 104 mg/m <sup>3</sup><br>Skin |

| Biological limit values |                |                |        |       |   |
|-------------------------|----------------|----------------|--------|-------|---|
| Chemical name           | European Union | United Kingdom | France | Spain | Germany   |
| ethanol                 |                |                |        |       | Biologische Grenzwerte nach die Verordnung zur arbeitsmedizinischen Vorsorge vom 18. Dezember 2008 sind zu beachten |

### 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. Face-shield.

##### Skin protection

Wear protective gloves and protective clothing.

##### Hand protection

Impervious gloves.

##### Other

Wear suitable protective clothing.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### 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

#### 32375: Fixing/denaturing Solution (1X)

Physical state

Liquid

Appearance

Clear

Color

Colorless

pH

13

Flash point

13 °C / 55 °F (Ethanol)

#### Kit Component

#### 94079: BrdU Mouse Detection mAb

## 5492 BrdU Cell Proliferation Chemiluminescent Assay Kit

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Physical state      Liquid  
Appearance        Clear  
Color                Green  
pH                    7.4 (20 °C)

**Kit Component                    34709: Anti-mouse IgG, HRP-Linked Antibody**

Physical state      Liquid  
Appearance        Clear  
Color                Red  
pH                    7.4 (20 °C)

**Kit Component                    13339: Detection Antibody Diluent**

Physical state      Liquid  
Appearance        Clear  
Color                Green  
pH                    7.4 (20 °C)

**Kit Component                    13515: HRP Diluent**

Physical state      Liquid  
Appearance        Clear  
Color                Red  
pH                    7.4 (20 °C)

**Kit Component                    48969: 20X Wash Buffer**

Physical state      Liquid  
Appearance        Clear  
Color                Colorless

**Kit Component                    84850: Luminol/Enhancer Solution**

Physical state      Liquid  
Appearance        Clear  
Color                Colorless / Light pink  
pH                    9.5 (20 °C)  
Solubility           Soluble in water

**Kit Component                    75953: BrdU**

Physical state      Liquid  
Appearance        Clear  
Color                Colorless  
pH                    7.0

**Kit Component                    42552: Stable Peroxide Buffer**

Physical state      Liquid  
Appearance        Clear  
Color                Colorless  
pH                    4.9 - 5.1 (20 °C)

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

Stable under normal conditions.

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## 5492 BrdU Cell Proliferation Chemiluminescent Assay Kit

### 10.3. Possibility of hazardous reactions

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

### 10.4. Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

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

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to release of toxic/corrosive 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                                      |
|---|--|--|--|
| ethanol   | 7060 ( Rat )   | -  | = 116.9 mg/L ( Rat ) 4 h<br>= 133.8 mg/L ( Rat ) 4 h |
| sodium azide  | = 27 mg/kg (Rat)   | = 20 mg/kg ( Rabbit ) = 50 mg/kg ( Rat )           | -  |
| reaction mass of<br>5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one | = 481 mg/kg (Rat)<br>= 120 mg/kg (Rat)<br>= 53 mg/kg (Rat) | = 200 mg/kg ( Rabbit )<br>= 87.12 mg/kg ( Rabbit ) | = 1.23 mg/L ( Rat ) 4 h<br>= 0.11 mg/L ( Rat ) 4 h   |
| Ethylene glycol   | = 4700 mg/kg (Rat)   | = 10600 mg/kg ( Rat )                              | > 2.5 mg/L ( Rat ) 6 h                               |

#### Information on likely routes of exposure

##### Inhalation

**Kit Component** **32375: Fixing/denaturing Solution (1X)**  
Inhalation May cause irritation of respiratory tract

##### Eye contact

**Kit Component** **32375: Fixing/denaturing Solution (1X)**  
Eye contact May cause irreversible damage to eyes

##### Skin contact

**Kit Component** **32375: Fixing/denaturing Solution (1X)**  
Skin contact Corrosive to skin

## 5492 BrdU Cell Proliferation Chemiluminescent Assay Kit

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**Kit Component** **13515: HRP Diluent**  
Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

**Kit Component** **34709: Anti-mouse IgG, HRP-Linked Antibody**  
Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

### Ingestion

**Kit Component** **32375: Fixing/denaturing Solution (1X)**  
Ingestion Ingestion may cause irritation to mucous membranes.

### 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. Significant esophageal or gastrointestinal tract irritation or burns may occur following ingestion. 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. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

### **Skin and Eye Corrosion/Irritation**

**Kit Component** **32375: Fixing/denaturing Solution (1X)**  
Serious eye damage/eye irritation Risk of serious damage to eyes  
Skin corrosion/irritation Causes burns

### **Sensitization**

**Kit Component** **34709: Anti-mouse IgG, HRP-Linked Antibody**  
Skin Sensitization May cause an allergic skin reaction

**Kit Component** **13515: HRP Diluent**  
Skin Sensitization May cause an allergic skin reaction

**Mutagenic effects** No information available.

### **Carcinogenic effects**

**Kit Component** **32375: Fixing/denaturing Solution (1X)**  
Carcinogenicity Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage

**Reproductive toxicity** No information available.

**Systemic Target Organ Toxicity (STOT)** No information available

**Aspiration Hazard** No information available.

### 11.2. Information on other hazards

**Other adverse effects** No information available.

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## SECTION 12: Ecological information

### 12.1. Toxicity

**Product Information** No information available

#### Component Information

| Chemical name  | Toxicity to algae  | Toxicity to fish   | Toxicity to daphnia and other aquatic invertebrates  |
|--|--|--|--|
| ethanol  | -  | LC50 12.0 - 16.0 mL/L (Oncorhynchus mykiss) 96 h<br>LC50 100 mg/L (Pimephales promelas) 96 h<br>LC50 13400 - 15100 mg/L (Pimephales promelas) 96 h   | LC50 9268 - 14221 mg/L (Daphnia magna) 48 h<br>EC50 2 mg/L (Daphnia magna) 48 h  |
| sodium azide   | EC50 0.35 mg/L (Pseudokirchneriella subcapitata) 96 h  | LC50 0.8 mg/L (Oncorhynchus mykiss) 96 h<br>LC50 0.7 mg/L (Lepomis macrochirus) 96 h<br>LC50 5.46 mg/L (Pimephales promelas) 96 h  | LC100 1 mg/L (Orconectes rusticus) 96 h  |
| reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one | EC50 0.11 - 0.16 mg/L (Pseudokirchneriella subcapitata) 72 h<br>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<br>EC50 0.12 - 0.3 mg/L (Daphnia magna) 48 h<br>EC50 0.71 - 0.99 mg/L (Daphnia magna) 48 h |
| Ethylene glycol  | EC50 6500 - 13000 mg/L (Pseudokirchneriella subcapitata) 96 h  | LC50 41000 mg/L (Oncorhynchus mykiss) 96 h<br>LC50 14 - 18 mL/L (Oncorhynchus mykiss) 96 h<br>LC50 27540 mg/L (Lepomis macrochirus) 96 h<br>LC50 40761 mg/L (Oncorhynchus mykiss) 96 h<br>LC50 40000 - 60000 mg/L (Pimephales promelas) 96 h<br>LC50 16000 mg/L (Poecilia reticulata) 96 h | EC50 46300 mg/L (Daphnia magna) 48 h   |

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

| Chemical name  | Octanol-Water Partition Coefficient |
|--|-------------------------------------|
| ethanol  | -0.35                               |
| reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one | >=-0.32 - <=0.7                     |
| Ethylene glycol  | -1.36                               |

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

No information available.

**12.6. Endocrine disrupting properties**

This product does not contain any known or suspected endocrine disruptors

**12.7. Other adverse effects**

No information available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

|  |   |
|--|---|
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations.  |
| <b>Contaminated packaging</b>                | Empty containers should be taken to an approved waste handling site for recycling or disposal.      |
| <b>Other information</b>                     | Waste codes should be assigned by the user based on the application for which the product was used. |

**SECTION 14: Transport information**

**IMDG/IMO**

|  |               |
|--|---------------|
| 14.1 UN number   | UN3316        |
| 14.2 UN proper shipping name                                 | Chemical Kit  |
| 14.3 Transport hazard class(es)                              | 9             |
| 14.4 Packing group   | II            |
| 14.5 Environmental hazards                                   | None          |
| 14.6 Special precautions for user                            |               |
| 14.7 Maritime transport in bulk according to IMO instruments | Not regulated |

**ADR/RID**

|                                   |              |
|-----------------------------------|--------------|
| 14.1 UN number                    | UN3316       |
| 14.2 UN proper shipping name      | Chemical Kit |
| 14.3 Transport hazard class(es)   | 9            |
| 14.4 Packing group                | II           |
| 14.5 Environmental hazards        | None         |
| 14.6 Special precautions for user |              |

**IATA**

|                                   |              |
|-----------------------------------|--------------|
| 14.1 UN number                    | UN3316       |
| 14.2 UN proper shipping name      | Chemical Kit |
| 14.3 Transport hazard class(es)   | 9            |
| 14.4 Packing group                | II           |
| 14.5 Environmental hazards        | None         |
| 14.6 Special precautions for user |              |

**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)**

## 5492 BrdU Cell Proliferation Chemiluminescent Assay Kit

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This product does not contain Substances of Very High Concern (SVHC).

### 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

H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H225 - Highly flammable liquid and vapor

**Classification procedure:** Expert judgment and weight of evidence determination.  
**Issuing Date:** 2018-04-10  
**Revision Date:** 2024-11-07

### 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.