

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

**Issuing Date:** 2018-01-19

**Revision Date:** 2024-05-13

**Version:** 2

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

### 1.1. Product identifier

<b>Product No</b>	53553
<b>Product name</b>	PathScan® Total MUC1 Sandwich ELISA Kit
<b>Kit Component</b>	51119: MUC1 Mouse mAb Coated Microwells 83369: MUC1 Rabbit Detection mAb 13272: Anti-rabbit IgG, HRP-linked Antibody (ELISA Formulated) 13339: Detection Antibody Diluent 13515: HRP Diluent 11083: ELISA Sample 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

<b>Chemical name</b>	<b>Index No.</b>	<b>CAS No</b>
polyethylene glycol	Not Listed	9002-93-1
p-(1,1,3,3-tetramethylbutyl)phenylether (10 - 20%)		
maleic acid (0 - 10%)	607-095-00-3	110-16-7
trometamol (0 - 10%)	Not Listed	77-86-1
tetrasodium pyrophosphate, decahydrate (0 - 10%)	Not Listed	13472-36-1
sodium azide (0 - 10%)	011-004-00-7	26628-22-8
reaction mass of:	613-167-00-5	55965-84-9
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%)		

### 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

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**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.

<b>Skin corrosion/irritation</b>	Category 1 - (H314)
<b>Serious eye damage/eye irritation</b>	Category 1 - (H318)
<b>Skin sensitization</b>	Category 1 - (H317)
<b>Chronic aquatic toxicity</b>	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.  
P264 - Wash face, hands and any exposed skin thoroughly after handling.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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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.  
P405 - Store locked up.  
P501 - Dispose of contents/container to an approved waste disposal plant.

### 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 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) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) 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) Acute Tox. 2 (H310) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1C (H314) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (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

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220-239-6) (Mixture of CMIT/MIT)

**Kit Component 11083: ELISA Sample 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) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH032)	no data available

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

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

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	618-344-0	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	no data available
trometamol	77-86-1	1.79	201-064-4	-	no data available
tetrasodium pyrophosphate, decahydrate	13472-36-1	0.1-1	-	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	no data available

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

**Kit Component 13339: Detection Antibody Diluent**

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
trometamol	77-86-1	0.5	201-064-4	-	no data available
sodium azide	26628-22-8	<0.1	247-852-1	Acute Tox. 2 (H300) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH032)	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 [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no.	55965-84-9	0.005-0.025	-	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1C (H314) Skin Corr. 1B (H314) Eye Dam. 1 (H318)	no data available

220-239-6] (3:1)				Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH071)	
trometamol	77-86-1	0.5	201-064-4	-	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**

**51119: MUC1 Mouse mAb Coated Microwells**  
**83369: MUC1 Rabbit Detection mAb**  
**13272: Anti-rabbit IgG, HRP-linked Antibody (ELISA Formulated)**  
**7004: TMB Substrate**

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

**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. Get medical attention immediately if symptoms occur. If breathing is difficult, give oxygen.

**Skin contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Immediate medical attention is required.

**Eye contact** Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**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.

### 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. Corrosive. Significant esophageal or gastrointestinal tract irritation or burns may occur following ingestion. 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. Respiratory tract irritation, if severe, can progress to pulmonary edema which may be delayed in onset up to 24 to 72 hours after exposure in some cases. 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** Probable mucosal damage may contraindicate the use of gastric lavage.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**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**

<b>For non-emergency personnel</b>	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.
<b>Other information</b>	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.

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

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Take up mechanically, placing in appropriate containers for disposal. Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Clean contaminated surface thoroughly.

**6.4. Reference to other sections**

See Sections 8 & 13 for additional information.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

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/m <sup>3</sup> TWA 5 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup>	
sodium azide	TWA 0.1 mg/m <sup>3</sup> STEL 0.3 mg/m <sup>3</sup> S*	STEL 0.3 mg/m <sup>3</sup> TWA 0.1 mg/m <sup>3</sup> Skin	TWA 0.1 mg/m <sup>3</sup> STEL 0.3 mg/m <sup>3</sup> P*	TWA 0.1 mg/m <sup>3</sup> STEL 0.3 mg/m <sup>3</sup> S*	TWA: 0.2 mg/m <sup>3</sup> Ceiling / Peak: 0.4 mg/m <sup>3</sup>
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/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup>
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
tetrasodium pyrophosphate, decahydrate					TWA 5 mg/m <sup>3</sup>
sodium azide	TWA 0.1 mg/m <sup>3</sup> STEL 0.3 mg/m <sup>3</sup> Pelle*	TWA 0.1 mg/m <sup>3</sup> STEL 0.3 mg/m <sup>3</sup> Ceiling 0.29 mg/m <sup>3</sup> Ceiling 0.11 ppm C(A4) P*	Huid* STEL 0.3 mg/m <sup>3</sup> TWA 0.1 mg/m <sup>3</sup>	TWA 0.1 mg/m <sup>3</sup> STEL 0.3 mg/m <sup>3</sup> iho*	TWA 0.1 mg/m <sup>3</sup> H*
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
tetrasodium pyrophosphate, decahydrate	STEL 10 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup>		TWA 5 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup>
sodium azide	H* STEL 0.3 mg/m <sup>3</sup> TWA 0.1 mg/m <sup>3</sup>	TWA 0.2 mg/m <sup>3</sup> STEL 0.4 mg/m <sup>3</sup>	TWA 0.1 mg/m <sup>3</sup> STEL 0.3 mg/m <sup>3</sup>	TWA 0.1 mg/m <sup>3</sup> STEL 0.1 mg/m <sup>3</sup>	TWA 0.1 mg/m <sup>3</sup> STEL 0.3 mg/m <sup>3</sup> Skin
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/m <sup>3</sup> Sh/Sah**	SS-C** S+ TWA 0.2 mg/m <sup>3</sup> STEL 0.4 mg/m <sup>3</sup>			

## 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

7004: TMB Substrate

Physical state                   Liquid  
Appearance                    Clear  
Color                            Light yellow  
pH                                3.3-3.8 (20 °C)

**Kit Component**               **7002: STOP Solution**  
Physical state                Liquid  
Appearance                   Clear  
Color                          Colorless  
pH                              1.2 (20 °C)

**Kit Component**               **9801: ELISA Wash Buffer (20X)**  
Physical state                Liquid  
Appearance                   Clear  
Color                          Colorless  
pH                              6.4 (20 °C)

**Kit Component**               **11083: ELISA Sample Diluent**  
Physical state                Liquid  
Appearance                   Clear  
Color                          Blue  
pH                              7.1 (20 °C)

**Kit Component**               **9803: Cell Lysis Buffer (10X)**  
Physical state                Liquid  
Appearance                   Clear  
Color                          Colorless  
pH                              7.5 (20 °C)

**Kit Component**               **83369: MUC1 Rabbit Detection mAb**  
Physical state                Solid  
Appearance                   Powder, Lyophilized  
Color                          Green

**Kit Component**               **13339: Detection Antibody Diluent**  
Physical state                Liquid  
Appearance                   Clear  
Color                          Green  
pH                              7.4 (20 °C)

**Kit Component**               **13272: Anti-rabbit IgG, HRP-linked Antibody (ELISA Formulated)**  
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**               **51119: MUC1 Mouse mAb Coated Microwells**  
Physical state                Solid  
Appearance                   Microwell Plate

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**SECTION 10: Stability and reactivity**

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**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. 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**

Incompatible with strong acids and bases, Incompatible with oxidizing agents.

**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
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylet her	= 1800 mg/kg (Rat)	-	-
maleic acid	708 mg/kg ( Rat )	1,560 mg/kg ( Rabbit )	> 0.72 mg/L ( Rat ) 1h
trometamol	5900 mg/kg ( Rat )	-	-
sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg ( Rabbit ) = 50 mg/kg ( Rat )	-
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-o ne [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**  
Inhalation

**7002: STOP Solution**  
Aerosol expected to be irritating based on components

<b>Kit Component</b> Inhalation	<b>9801: ELISA Wash Buffer (20X)</b> Avoid breathing vapors or mists May cause irritation of respiratory tract
<b>Kit Component</b> Inhalation	<b>83369: MUC1 Rabbit Detection mAb</b> May cause allergic respiratory reaction
<b>Kit Component</b> Inhalation	<b>13272: Anti-rabbit IgG, HRP-linked Antibody (ELISA Formulated)</b> May cause allergic respiratory reaction
<b>Kit Component</b> Inhalation	<b>13515: HRP Diluent</b> Avoid breathing vapors or mists May cause irritation of respiratory tract

**Eye contact**

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

**Skin contact**

<b>Kit Component</b> Skin contact	<b>7002: STOP Solution</b> Corrosive to skin Prolonged contact with skin is harmful
<b>Kit Component</b> Skin contact	<b>9801: ELISA Wash Buffer (20X)</b> Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Expected to be an irritant based on components
<b>Kit Component</b> Skin contact	<b>83369: MUC1 Rabbit Detection mAb</b> Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
<b>Kit Component</b> Skin contact	<b>13272: Anti-rabbit IgG, HRP-linked Antibody (ELISA Formulated)</b> Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
<b>Kit Component</b> Skin contact	<b>13515: HRP Diluent</b> Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

**Ingestion**

<b>Kit Component</b> Ingestion	<b>7002: STOP Solution</b> Ingestion causes burns of the upper digestive and respiratory tract. Harmful if swallowed
<b>Kit Component</b> Ingestion	<b>9801: ELISA Wash Buffer (20X)</b> 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

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component SDSs for full information on symptoms. Corrosive. Significant esophageal or gastrointestinal tract irritation or burns may occur following ingestion. 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. Respiratory tract irritation, if severe, can progress to pulmonary edema which may be delayed in onset up to 24 to 72 hours after exposure in some cases. 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**

<b>Kit Component</b> Serious eye damage/eye irritation Skin corrosion/irritation	<b>7002: STOP Solution</b> Risk of serious damage to eyes Causes burns
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<b>Kit Component</b> Serious eye damage/eye irritation Skin corrosion/irritation	<b>9801: ELISA Wash Buffer (20X)</b> Causes serious eye irritation Causes skin irritation
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<b>Kit Component</b> Serious eye damage/eye irritation	<b>9803: Cell Lysis Buffer (10X)</b> Irritating to eyes
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**Sensitization**

<b>Kit Component</b> Skin Sensitization	<b>7002: STOP Solution</b> May cause skin sensitization
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<b>Kit Component</b> Skin Sensitization	<b>9801: ELISA Wash Buffer (20X)</b> Product is or contains a sensitizer. May cause an allergic skin reaction
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<b>Kit Component</b> Respiratory Sensitization Skin Sensitization	<b>83369: MUC1 Rabbit Detection mAb</b> May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause skin sensitization
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<b>Kit Component</b> Respiratory Sensitization Skin Sensitization	<b>13272: Anti-rabbit IgG, HRP-linked Antibody (ELISA Formulated)</b> May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause skin sensitization
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<b>Kit Component</b> Skin Sensitization	<b>13515: HRP Diluent</b> Product is or contains a sensitizer. May cause an allergic skin reaction
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**Mutagenic effects**

<b>Kit Component</b> Mutagenic effects	<b>7002: STOP Solution</b> Not mutagenic in AMES Test
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**Carcinogenic effects** No information available

**Reproductive toxicity** No information available.

**Systemic Target Organ Toxicity (STOT)**

**Kit Component**  
STOT - single exposure

**7002: STOP Solution**  
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**  
Ecotoxicity

**7002: STOP Solution**  
Toxic to aquatic life

**Kit Component**  
Ecotoxicity

**9801: ELISA Wash Buffer (20X)**  
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
trometamol	-	-	NOEC >100 mg/L (Selenastrum capricornutum) 96 h
sodium azide	EC50 0.35 mg/L (Pseudokirchneriella subcapitata) 96 h	LC50 0.8 mg/L (Oncorhynchus mykiss) 96 h LC50 5.46 mg/L (Pimephales promelas) 96 h LC50 0.7 mg/L (Lepomis macrochirus) 96 h	LC100 1 mg/L (Orconectes rusticus) 96 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**  
Persistence and degradability

**7002: STOP Solution**  
Product is biodegradable

**Kit Component**  
Persistence and degradability

**9801: ELISA Wash Buffer (20X)**  
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** Empty containers should be taken to an approved waste handling site for recycling or disposal.  
**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 Not regulated

according to IMO instruments

**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
Excepted Quantity	E1

## 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

<b>TSCA</b>	- United States Toxic Substances Control Act Section 8(b) Inventory
<b>DSL/NDSL</b>	- Canadian Domestic Substances List/Non-Domestic Substances List
<b>EINECS/ELINCS</b>	- European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
<b>ENCS</b>	- Japan Existing and New Chemical Substances
<b>IECSC</b>	- China Inventory of Existing Chemical Substances
<b>KECL</b>	- Korean Existing and Evaluated Chemical Substances
<b>PICCS</b>	- Philippines Inventory of Chemicals and Chemical Substances
<b>AICS</b>	- 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  
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  
H331 - Toxic if inhaled  
H335 - May cause respiratory irritation  
H412 - Harmful to aquatic life with long lasting effects  
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  
EUH032 - Contact with acids liberates very toxic gas

**Classification procedure:** Expert judgment and weight of evidence determination.  
**Issuing Date:** 2018-01-19  
**Revision Date:** 2024-05-13

### 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.