

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

Issuing Date: 2018-01-19

Version: 1

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

### 1.1. Product identifier

<b>Product No</b>	7986
<b>Product name</b>	PathScan® Phospho-Acetyl-CoA Carboxylase (Ser79) Sandwich ELISA Kit
<b>Kit Component</b>	<b>TMB Substrate</b> <b>STOP Solution</b> <b>ELISA Wash Buffer (20X)</b> <b>ELISA Sample Diluent</b> <b>PathScan® Sandwich ELISA Lysis Buffer (1X)</b>
	<b>When supplied with lyophilized antibodies:</b> <b>Green Detection Antibody (Lyophilized)</b> <b>Green Detection Antibody Diluent</b> <b>Red HRP Diluent</b> <b>*Red HRP-Linked Antibody (Lyophilized)</b>
	<b>When supplied with liquid antibodies:</b> <b>Green Detection Antibody (Liquid)</b> <b>*Red HRP-Linked Antibody (Liquid)</b>
	<b>*Note: Some PathScan® ELISA Kits may include HRP-Linked Streptavidin in place of HRP-Linked Antibody.</b>

**Reach registration number** This substance/mixture contains only ingredients which have been registered, or are exempt from registration, according to Regulation (EC) No. 1907/2006.

### Contains

<b>Chemical Name</b>	<b>Index No.</b>	<b>CAS No</b>
maleic acid (0 - 10%)	607-095-00-3	110-16-7
trometamol (0 - 10%)	Not Listed	77-86-1
polyethylene glycol	Not Listed	9002-93-1
p-(1,1,3,3-tetramethylbutyl)phenylether (0 - 10%)		
sodium azide (0 - 10%)	011-004-00-7	26628-22-8
sodium fluoride (0 - 10%)	009-004-00-7	7681-49-4
tetrasodium pyrophosphate, decahydrate (0 - 10%)	Not Listed	13472-36-1
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

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

**Importer (Applicable in EU only)**

Cell Signaling Technology Europe B.V.  
Schuttersveld 2  
2316 ZA Leiden  
The Netherlands  
TEL: +31 (0)71 7200 200  
FAX: +31 (0)71 891 0098

**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

<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)

**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

**Precautionary statement(s)**

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

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

P310 - Immediately call a POISON CENTER or doctor/physician

P337 + P313 - If eye irritation persists: Get medical advice/attention

P264 - Wash face, hands and any exposed skin thoroughly after handling

P272 - Contaminated work clothing should not be allowed out of the workplace

**2.3. Other hazards**

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

**SECTION 3. Composition/information on ingredients**

**7986 PathScan® Phospho-Acetyl-CoA Carboxylase (Ser79) Sandwich ELISA Kit**
**Kit Component Name** STOP Solution

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 Name** ELISA Wash Buffer (20X)

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. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available

**Kit Component Name** 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 Name** PathScan® Sandwich ELISA Lysis Buffer (1X)

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	1	-	Acute Tox. 4(H302) Eye Dam. 1(H318) Aquatic Chronic 2 (H411)	no data available
tetrasodium pyrophosphate, decahydrate	13472-36-1	0.06	-	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	no data available
sodium fluoride	7681-49-4	0.1-1	231-667-8	Acute Tox. 3 (H301) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) (EUH032)	no data available

**Kit Component Name** Green 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	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	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

## 7986 PathScan® Phospho-Acetyl-CoA Carboxylase (Ser79) Sandwich ELISA Kit

### Kit Component Name Red HRP Diluent

Chemical Name	CAS No	Weight %	EC No	Classification (1272/2008)	REACH Registration Number
trometamol	77-86-1	0.5	201-064-4	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	no data available
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. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available

### Kit Component Name Green Detection Antibody (Liquid)

Chemical Name	CAS No	Weight %	EC No	Classification (1272/2008)	REACH Registration Number
trometamol	77-86-1	0.5	201-064-4	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	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 Name \*Red HRP-linked Antibody (Liquid)

Chemical Name	CAS No	Weight %	EC No	Classification (1272/2008)	REACH Registration Number
trometamol	77-86-1	0.5	201-064-4	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	no data available
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. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available

**Kit Component Name** Green Detection Antibody (Lyophilized), \*Red HRP-Linked Antibody (Lyophilized); TMB Substrate.

This product does 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>	Use first aid treatment according to the nature of the injury. When symptoms persist or in all cases of doubt seek medical advice.
<b>Inhalation</b>	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.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and

**Eye contact** shoes. Immediate medical attention is required. 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**

**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** 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. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

**6.4. Reference to other sections**

## 7986 PathScan® Phospho-Acetyl-CoA Carboxylase (Ser79) Sandwich ELISA Kit

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. Remove and wash contaminated clothing before re-use. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.

#### 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

Chemical Name	European Union	United Kingdom	France	Spain	Germany
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>
sodium fluoride	TWA 2.5 mg/m <sup>3</sup>	STEL 7.5 mg/m <sup>3</sup> TWA 2.5 mg/m <sup>3</sup>	TWA 2 mg/m <sup>3</sup> TWA 2.5 mg/m <sup>3</sup>	TWA 2.5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> Skin
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>	
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
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*
sodium fluoride	TWA 2.5 mg/m <sup>3</sup>	TWA 2.5 mg/m <sup>3</sup> C(A4)		TWA 2.5 mg/m <sup>3</sup>	TWA 2.5 mg/m <sup>3</sup>
tetrasodium pyrophosphate, decahydrate					TWA 5 mg/m <sup>3</sup>
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
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
sodium fluoride			TWA 2 mg/m <sup>3</sup>	TWA 0.5 mg/m <sup>3</sup> STEL 1.5 mg/m <sup>3</sup>	TWA 2.5 mg/m <sup>3</sup> STEL 7.5 mg/m <sup>3</sup>
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>
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)	H* TWA 0.05 mg/m <sup>3</sup> Sh/Sah**	SS-C** S+ TWA 0.2 mg/m <sup>3</sup>			

## 7986 PathScan® Phospho-Acetyl-CoA Carboxylase (Ser79) Sandwich ELISA Kit

Chemical Name	European Union	United Kingdom	France	Spain	Germany
sodium fluoride			3 10	2 3	Biologische Grenzwerte nach TRGS 903 sind zu beachten
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
sodium fluoride		4			

### 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

**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	<b>TMB Substrate</b>
Physical state	Liquid
Appearance	Clear
Color	Light yellow
pH VALUE	3.3-3.8
Remarks	@ 20 °C

Kit Component	<b>STOP Solution</b>
Physical state	Liquid
Appearance	Clear
Color	Colorless
pH VALUE	1.2
Remarks	@ 20 °C

Kit Component	<b>ELISA Wash Buffer (20X)</b>
Physical state	Liquid
Appearance	Clear
Color	Colorless
pH VALUE	6.4
Remarks	@ 20 °C

Kit Component	<b>ELISA Sample Diluent</b>
Physical state	Liquid
Appearance	Clear
Color	Blue
pH VALUE	7.1
Remarks	@ 20 °C

Kit Component	<b>PathScan® Sandwich ELISA Lysis Buffer (1X)</b>
Physical state	Liquid
Appearance	Clear

## 7986 PathScan® Phospho-Acetyl-CoA Carboxylase (Ser79) Sandwich ELISA Kit

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Color Green Colorless  
pH VALUE 7.5  
Remarks @ 20 °C

Kit Component **Green Detection Antibody (Lyophilized)**  
Physical state Solid  
Appearance Lyophilized Powder  
Color Green

Kit Component **Green Detection Antibody Diluent**  
Physical state Liquid  
Appearance Clear  
Color Red Green  
pH VALUE 7.4  
Remarks @ 20 °C

Kit Component **\*Red HRP-Linked Antibody (Lyophilized)**  
Physical state Solid  
Appearance Lyophilized Powder  
Color Red

Kit Component **Red HRP Diluent**  
Physical state Liquid  
Appearance Clear  
Color Red  
pH VALUE 7.4  
Remarks @ 20 °C

Kit Component **Green Detection Antibody (Liquid)**  
Physical state Liquid  
Appearance Clear  
Color Colorless  
pH VALUE 7.4  
Remarks @ 20 °C

Kit Component **\*Red HRP-Linked Antibody (Liquid)**  
Physical state Liquid  
Appearance Clear  
Color Colorless  
pH VALUE 7.4  
Remarks @ 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. 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 toxicological effects**

**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
maleic acid	708 mg/kg ( Rat )	1,560 mg/kg ( Rabbit )	> 0.72 mg/L ( Rat ) 1h
trometamol	5900 mg/kg ( Rat )	-	-
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether	= 1800 mg/kg (Rat)	-	-
sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg ( Rabbit ) = 50 mg/kg ( Rat )	-
sodium fluoride	= 52 mg/kg (Rat)	= 175 mg/kg ( Rat )	-
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)	-	= 1.23 mg/L ( Rat ) 4 h

**Information on likely routes of exposure**

**Inhalation**

Kit Component Inhalation	STOP Solution Aerosol expected to be irritating based on components
Kit Component Inhalation	ELISA Wash Buffer (20X) Avoid breathing vapors or mists May cause irritation of respiratory tract
Kit Component Inhalation	Green Detection Antibody (Lyophilized) May cause allergic respiratory reaction
Kit Component Inhalation	*Red HRP-Linked Antibody (Lyophilized) May cause allergic respiratory reaction
Kit Component Inhalation	Red HRP Diluent Avoid breathing vapors or mists May cause irritation of respiratory tract

**Eye contact**

Kit Component Eye contact	STOP Solution May cause irreversible damage to eyes
Kit Component	ELISA Wash Buffer (20X)

## 7986 PathScan® Phospho-Acetyl-CoA Carboxylase (Ser79) Sandwich ELISA Kit

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Eye contact Expected to be an irritant based on components

Kit Component PathScan® Sandwich ELISA Lysis Buffer (1X)  
Eye contact Expected to be an irritant based on components

Kit Component Red HRP Diluent  
Eye contact Contact with eyes may cause irritation

### Skin contact

Kit Component STOP Solution  
Skin contact Corrosive to skin. Prolonged contact with skin is harmful

Kit Component 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

Kit Component Green Detection Antibody (Lyophilized)  
Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

Kit Component \*Red HRP-Linked Antibody (Lyophilized)  
Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

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

### Ingestion

Kit Component STOP Solution  
Ingestion Ingestion causes burns of the upper digestive and respiratory tract. Harmful if swallowed

Kit Component 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:  
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

Kit Component STOP Solution  
Skin corrosion/irritation Causes burns  
Serious eye damage/eye irritation Risk of serious damage to eyes

Kit Component ELISA Wash Buffer (20X)  
Skin corrosion/irritation Causes skin irritation  
Serious eye damage/eye irritation Causes serious eye irritation

Kit Component PathScan® Sandwich ELISA Lysis Buffer (1X)

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## 7986 PathScan® Phospho-Acetyl-CoA Carboxylase (Ser79) Sandwich ELISA Kit

Serious eye damage/eye irritation Causes serious eye irritation

### Sensitization

Kit Component Skin Sensitization	STOP Solution May cause skin sensitization
Kit Component Skin Sensitization	ELISA Wash Buffer (20X) Product is or contains a sensitizer. May cause an allergic skin reaction.
Kit Component Respiratory Sensitization Skin Sensitization	Green Detection Antibody (Lyophilized) May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause skin sensitization
Kit Component Respiratory Sensitization Skin Sensitization	*Red HRP-Linked Antibody (Lyophilized) May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause skin sensitization
Kit Component Skin Sensitization	Red HRP Diluent Product is or contains a sensitizer. May cause an allergic skin reaction.
Kit Component Skin Sensitization	*Red HRP-Linked Antibody (Liquid) Product is or contains a sensitizer. May cause an allergic skin reaction.

### Mutagenic effects

Kit Component Mutagenic effects	STOP Solution 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	STOP Solution Respiratory system
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### Aspiration Hazard

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Product Information

Kit Component Ecotoxicity	STOP Solution Toxic to aquatic life
Kit Component Ecotoxicity	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
maleic acid	-	LC50 5 mg/L (Pimephales)	EC50 250 - 400 mg/L (Daphnia)

## 7986 PathScan® Phospho-Acetyl-CoA Carboxylase (Ser79) Sandwich ELISA Kit

		promelas) 96 h	magna) 48 h
trometamol	-	-	NOEC >100 mg/L (Senastrum capricornutum) 96 h
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
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
sodium fluoride	EC50 850 mg/L (Desmodesmus subspicatus) 72 h EC50 272 mg/L (Pseudokirchneriella subcapitata) 96 h	LC50 530 mg/L (Lepomis macrochirus) 96 h LC50 180 mg/L (Pimephales promelas) 96 h LC50 38 - 68 mg/L (Oncorhynchus mykiss) 96 h LC50 830 mg/L (Lepomis macrochirus) 96 h	EC50 98 mg/L (Daphnia magna) 48 h EC50 338 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 STOP Solution  
Persistence and degradability Product is biodegradable

Kit Component ELISA Wash Buffer (20X)  
Persistence and degradability Not readily biodegradable

### 12.3. Bioaccumulative potential

Kit Component STOP Solution  
Bioaccumulation Not likely to bioaccumulate

Kit Component 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 STOP Solution  
Mobility Will likely be mobile in the environment due to its water solubility

Kit Component 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. Other adverse effects

No information available

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	Group III Chemical	-	-

### 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

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
EmS No.	F-A, S-B
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	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
Classification Code	C3
Tunnel Restriction Code	(E)

#### 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
Special provisions	A3, A803
ERG code	8L

### SECTION 15: Regulatory information

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

##### Candidate List of Substances of Very High Concern for Authorization Information

Chemical Name	Candidate List of Substances of Very High Concern for Authorization Information
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether (0 - 10%)	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**

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

**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

<b>SECTION 16: Other information</b>
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**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

**Classification procedure:** Expert judgment and weight of evidence determination.

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

**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.