

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

14507			
PathScan® Total Ki-67 Sandwich ELISA Kit			
65195: Ki-67 Rabbit mAb Coated Microwells 14493: Ki-67 Mouse Detection mAb 13304: Anti-mouse 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)			
Index No. Not Listed er (10 - 20%) 607-095-00-3	<b>CAS No</b> 9002-93-1 110-16-7		
rate (0 - Not Listed Not Listed 011-004-00-7 613-167-00-5 € [EC no. zol-3-one	77-86-1 13472-36-1 26628-22-8 55965-84-9		
	PathScan® Total Ki-67 \$ 65195: Ki-67 Rabbit mAb Coated Mici 14493: Ki-67 Mouse Detection mAb 13304: Anti-mouse IgG, HRP-linked A 1339: 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) <b>Index No.</b> Not Listed of (10 - 20%) 607-095-00-3 Not Listed ate (0 - Not Listed 011-004-00-7 613-167-00-5 [EC no.		

## 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	3 Trask Lane Danvers, MA 01923 United States TEL: +1 978 867 2300
FAX: +31 (0)71 891 0019	FAX: +1 978 867 2400
Website	www.cellsignal.com

#### E-mail Address

info@cellsignal.eu

## 1.4. Emergency telephone number

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

Europe

112

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

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

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

## 2.2. Label elements



Signal word Danger

## Hazard statement(s)

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

#### Precautionary statement(s)

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

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.

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-isothi azolin-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. 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

## 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-tetramethylbut yl)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-isothi azolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no.		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

#### 65195: Ki-67 Rabbit mAb Coated Microwells 14493: Ki-67 Mouse Detection mAb 13304: Anti-mouse 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

Unsuitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment 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	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.
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.

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

Methods for containment Methods for cleaning up	Prevent further leakage or spillage if safe to do so. 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 expos	ure 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-isothiaz olin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)					Ceiling / Peak: 0.4 mg/m³ TWA: 0.2 mg/m³
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/m³ 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-isothiaz olin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	TWA 0.05 mg/m³ 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, suc	ch 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 Appearance Color pH

## **Kit Component**

Physical state Appearance Color pH

#### **Kit Component**

Physical state Appearance Color pH

#### **Kit Component**

Physical state Appearance Color pH

## **Kit Component**

Physical state Appearance Color pH

## **Kit Component**

Physical state Appearance Color

#### **Kit Component**

Physical state Appearance Color pH

## **Kit Component**

Physical state Appearance Color

#### **Kit Component**

Physical state Appearance Color pH

Kit Component Physical state Appearance

## Liquid Clear Light yellow 3.3-3.8 (20 °C)

#### 7002: STOP Solution

Liquid Clear Colorless 1.2 (20 °C)

9801: ELISA Wash Buffer (20X) Liquid

Clear Colorless 6.4 (20 °C)

## 11083: ELISA Sample Diluent

Liquid Clear Blue 7.1 (20 °C)

## 9803: Cell Lysis Buffer (10X)

Liquid Clear Colorless 7.5 (20 °C)

## 14493: Ki-67 Mouse Detection mAb

Solid Powder, Lyophilized Green

## 13339: Detection Antibody Diluent Liquid

Clear Green 7.4 (20 °C)

#### 13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated) Solid

Powder, Lyophilized Red

#### 13515: HRP Diluent Liquid Clear Red

7.4 (20 °C)

#### 65195: Ki-67 Rabbit mAb Coated Microwells Solid

Microwell Plate

## **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 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	= 1800 mg/kg (Rat)	-	-
p-(1,1,3,3-tetramethylbutyl)phenylet			
her			
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:	= 53 mg/kg (Rat) = 481 mg/kg	= 200 mg/kg (Rabbit)	= 1.23 mg/L (Rat) 4 h = 0.11 mg/L
5-chloro-2-methyl-4-isothiazolin-3-o	(Rat) 232 - 249 mg/kg (Rat) = 120		( Rat ) 4 h
ne [EC no. 247-500-7] and	mg/kg (Rat)		
2-methyl-2H -isothiazol-3-one [EC			
no. 220-239-6] (3:1)			

## Information on likely routes of exposure

## Inhalation

Kit	Component
Inha	alation

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

Kit Component Inhalation	9801: ELISA Wash Buffer (20X) Avoid breathing vapors or mists May cause irritation of respiratory tract
Kit Component Inhalation	14493: Ki-67 Mouse Detection mAb May cause allergic respiratory reaction
Kit Component Inhalation	13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated) May cause allergic respiratory reaction
Kit Component Inhalation	<b>13515: HRP Diluent</b> Avoid breathing vapors or mists May cause irritation of respiratory tract
Eye contact	
Kit Component Eye contact	7002: STOP Solution May cause irreversible damage to eyes
Kit Component Eye contact	9801: ELISA Wash Buffer (20X) Expected to be an irritant based on components
Kit Component Eye contact	9803: Cell Lysis Buffer (10X) Expected to be an irritant based on components
Kit Component Eye contact	13515: HRP Diluent Contact with eyes may cause irritation
Skin contact	
Kit Component Skin contact	7002: STOP Solution Corrosive to skin Prolonged contact with skin is harmful
Kit Component Skin contact	9801: ELISA Wash Buffer (20X) Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Expected to be an irritant based on components
Kit Component Skin contact	14493: Ki-67 Mouse Detection mAb
	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
Kit Component Skin contact	13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated)         Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
	13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated)
Skin contact Kit Component	<ul> <li>13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated)</li> <li>Repeated or prolonged skin contact may cause allergic reactions with susceptible persons</li> <li>13515: HRP Diluent</li> </ul>
Skin contact <b>Kit Component</b> Skin contact	<ul> <li>13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated)</li> <li>Repeated or prolonged skin contact may cause allergic reactions with susceptible persons</li> <li>13515: HRP Diluent</li> </ul>
Skin contact Kit Component Skin contact Ingestion Kit Component	<ul> <li>13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated) Repeated or prolonged skin contact may cause allergic reactions with susceptible persons</li> <li>13515: HRP Diluent Repeated or prolonged skin contact may cause allergic reactions with susceptible persons</li> <li>7002: STOP Solution</li> </ul>
Skin contact Kit Component Skin contact Ingestion Kit Component Ingestion Kit Component Ingestion	<ul> <li>13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated) Repeated or prolonged skin contact may cause allergic reactions with susceptible persons</li> <li>13515: HRP Diluent Repeated or prolonged skin contact may cause allergic reactions with susceptible persons</li> <li>7002: STOP Solution Ingestion causes burns of the upper digestive and respiratory tract. Harmful if swallowed</li> <li>9801: ELISA Wash Buffer (20X)</li> </ul>

	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	<b>7002: STOP Solution</b>
Serious eye damage/eye irritation	Risk of serious damage to eyes
Skin corrosion/irritation	Causes burns
Kit Component	9801: ELISA Wash Buffer (20X)
Serious eye damage/eye irritation	Causes serious eye irritation
Skin corrosion/irritation	Causes skin irritation
Kit Component	9803: Cell Lysis Buffer (10X)
Serious eye damage/eye irritation	Irritating to eyes
Sensitization	
Kit Component	7002: STOP Solution
Skin Sensitization	May cause skin sensitization
Kit Component	<b>9801: ELISA Wash Buffer (20X)</b>
Skin Sensitization	Product is or contains a sensitizer. May cause an allergic skin reaction
<b>Kit Component</b>	<b>14493: Ki-67 Mouse Detection mAb</b>
Respiratory Sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Skin Sensitization	May cause skin sensitization
<b>Kit Component</b>	<b>13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated)</b>
Respiratory Sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Skin Sensitization	May cause skin sensitization
Kit Component	<b>13515: HRP Diluent</b>
Skin Sensitization	Product is or contains a sensitizer. May cause an allergic skin reaction
Mutagenic effects	
Kit Component	7002: STOP Solution
Mutagenic effects	Not mutagenic in AMES Test
Carcinogenic effects	No information available
Reproductive toxicity	No information available.
Systemic Target Organ Toxicity (STOT)	

Kit Component	7002: STOP Solution
STOT - single exposure	Respiratory system

**Aspiration Hazard** 

No information available.

11.2. Information on other hazards

Other adverse effects

No information available.

## **SECTION 12: Ecological information**

Harmful to aquatic life with long lasting effects

## 12.1. Toxicity

## **Product Information**

Kit Component	7002: STOP Solution
Ecotoxicity	Toxic to aquatic life
Kit Component	9801: ELISA Wash Buffer (20X)

# Ecotoxicity

## **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)phenylet her	-	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		LC100 1 mg/L (Orconectes rusticus) 96 h
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)	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	9801: ELISA Wash Buffer (20X)
Kit Component	7002: STOP Solution
Persistence and degradability	Product is biodegradable

12.3. Bioaccumulative potential

Persistence and degradability

#### **Kit Component**

7002: STOP Solution

Not readily biodegradable

Bioaccumulation

Not likely to bioaccumulate

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

Chemical name	Octanol-Water Partition Coefficient
maleic acid	0.32

## 12.4. Mobility in soil

<b>Kit Component</b>	<b>7002: STOP Solution</b>
Mobility	Will likely be mobile in the environment due to its water solubility
<b>Kit Component</b>	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	Endocrine disrupting properties,	-	-
p-(1,1,3,3-tetramethylbutyl)phenylet	Article 57f - environment		
her			

#### 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 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user	UN3265 Corrosive liquid, acidic, organic, n.o.s. (maleic acid) 8 III None None
IATA 14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user Excepted Quantity	UN3265 Corrosive liquid, acidic, organic, n.o.s. (maleic acid) 8 III None None 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	Reason for inclusion Endocrine	-
p-(1,1,3,3-tetramethylbutyl)phenylether (10 -	disrupting properties, Article 57f -	
20%)	environment	

## SEVESO Directive Information

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

#### International inventories TSCA 8(b)

DSL/NDSL	-
EINECS/ELINCS	-
ENCS	-
IECSC	-
KECL	-
PICCS	-
AICS	-

International inventories legend

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

## 15.2. Chemical safety assessment

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

## **SECTION 16: Other information**

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

<ul> <li>H300 - Fatal if swallowed</li> <li>H301 - Toxic if swallowed</li> <li>H302 - Harmful if swallowed</li> <li>H311 - Toxic in contact with skin</li> <li>H314 - Causes severe skin burns and eye damage</li> <li>H315 - Causes skin irritation</li> <li>H317 - May cause an allergic skin reaction</li> <li>H318 - Causes serious eye damage</li> <li>H319 - Causes serious eye irritation</li> <li>H331 - Toxic if inhaled</li> <li>H335 - May cause respiratory irritation</li> <li>H412 - Harmful to aquatic life with long lasting effects</li> <li>H400 - Very toxic to aquatic life with long lasting effects</li> </ul>
<b>,</b> , , , , , , , , , , , , , , , , , ,

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

## **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.