

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

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

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Version: 3

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

12002 PathScan® Total SMAD3	Sandwich ELISA Kit	
95459: SMAD3 Rabbit mAb Coated Microwells 13154: SMAD2/3 Mouse Detection mAb 13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated) 13339: Detection Antibody Diluent 13515: HRP Diluent 7004: TMB Substrate 7002: STOP Solution 11083: ELISA Sample Diluent 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	
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 SMAD3 95459: SMAD3 Rabbit mAb Coated Mic 13154: SMAD2/3 Mouse Detection mAb 13304: Anti-mouse IgG, HRP-linked Ant 13339: Detection Antibody Diluent 13515: HRP Diluent 7004: TMB Substrate 7002: STOP Solution 11083: ELISA Sample Diluent 9801: ELISA Wash Buffer (20X) 9803: Cell Lysis Buffer (10X) Index No. Not Listed rate (0 - Not Listed 011-004-00-7 613-167-00-5 EEC 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

# 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

E-mail Address

112

info@cellsignal.eu

## **SECTION 2: Hazards identification**

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

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

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

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

#### 2.2. Label elements



Signal word Danger

#### Hazard statement(s)

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

### Precautionary statement(s)

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

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

#### 2.3. Other hazards

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

Polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether (CAS no. 9002-93-1) is a suspected endocrine disruptor. Endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4).

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

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

**Kit Component** 

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
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#### 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. 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
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 Component95459: SMAD3 Rabbit mAb Coated Microwells13154: SMAD2/3 Mouse Detection mAb13304: 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 MediaUse extinguishing measures that are appropriate to local circumstances and the<br/>surrounding environmentUnsuitable Extinguishing MediaNo 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 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:					Ceiling / Peak: 0.4

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)					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/m <sup>3</sup> H*
Chamical name			Delevel	Mamurau	
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
tetrasodium pyrophosphate, decahydrate	Austria STEL 10 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup>	Poland	TWA 5 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup>
tetrasodium pyrophosphate,	STEL 10 mg/m <sup>3</sup>		TWA 0.1 mg/m <sup>3</sup> STEL 0.3 mg/m <sup>3</sup>	TWA 5 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.

<b>Kit Component</b>	<b>7004: TMB Substrate</b>
Physical state	Liquid
Appearance	Clear
Color	Light yellow
pH	3.3-3.8 (20 °C)
<b>Kit Component</b>	<b>7002: STOP Solution</b>
Physical state	Liquid
Appearance	Clear

Color Colorless pН 1.2 (20 °C) **Kit Component** 9801: ELISA Wash Buffer (20X) Physical state Liquid Clear Appearance Color Colorless 6.4 (20 °C) pН **Kit Component** 11083: ELISA Sample Diluent Physical state Liquid Appearance Clear Color Blue pН 7.1 (20 °C) **Kit Component** 9803: Cell Lysis Buffer (10X) Physical state Liquid Appearance Clear Color Colorless pН 7.5 (20 °C) **Kit Component** 13154: SMAD2/3 Mouse Detection mAb Physical state Solid Appearance Lyophilized, Powder Color Green **Kit Component** 13339: Detection Antibody Diluent Physical state Liquid Appearance Clear Color Green 7.4 (20 °C) pН **Kit Component** 13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated) Physical state Solid Appearance Lyophilized, Powder Color Red **Kit Component** 13515: HRP Diluent Physical state Liquid Appearance Clear Color Red pН 7.4 (20 °C)

**Kit Component** Physical state Appearance 95459: SMAD3 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)4h
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	7002: STOP Solution
Inhalation	Aerosol expected to be irritating based on components
Kit Component	9801: ELISA Wash Buffer (20X)
Inhalation	Avoid breathing vapors or mists May cause irritation of respiratory tract
Kit Component	13154: SMAD2/3 Mouse Detection mAb
Inhalation	May cause allergic respiratory reaction
Kit Component	13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated)
Inhalation	May cause allergic respiratory reaction

Kit Component	<b>13515: HRP Diluent</b>
Inhalation	Avoid breathing vapors or mists May cause irritation of respiratory tract
Eye contact	
Kit Component	7002: STOP Solution
Eye contact	May cause irreversible damage to eyes
Kit Component	9801: ELISA Wash Buffer (20X)
Eye contact	Expected to be an irritant based on components
Kit Component	9803: Cell Lysis Buffer (10X)
Eye contact	Expected to be an irritant based on components
Kit Component	13515: HRP Diluent
Eye contact	Contact with eyes may cause irritation
Skin contact	
Kit Component	<b>7002: STOP Solution</b>
Skin contact	Corrosive to skin Prolonged contact with skin is harmful
Kit Component 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
Kit Component	13154: SMAD2/3 Mouse Detection mAb
Skin contact	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
Kit Component	13304: Anti-mouse IgG, HRP-linked Antibody (ELISA Formulated)
Skin contact	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
Kit Component	<b>13515: HRP Diluent</b>
Skin contact	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
Ingestion	
Kit Component	<b>7002: STOP Solution</b>
Ingestion	Ingestion causes burns of the upper digestive and respiratory tract. Harmful if swallowed
Kit Component	9801: ELISA Wash Buffer (20X)
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
Delayed and immediate effects as v	vell 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

<b>Kit Component</b>	7002: STOP Solution
Serious eye damage/eye irritation	Risk of serious damage to eyes
Skin corrosion/irritation	Causes burns
<b>Kit Component</b>	<b>9801: ELISA Wash Buffer (20X)</b>
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>13154: SMAD2/3 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**

### 12.1. Toxicity

### **Product Information**

Kit Component	7002: STOP Solution
Ecotoxicity	Toxic to aquatic life
Kit Component	<b>9801: ELISA Wash Buffer (20X)</b>
Ecotoxicity	Harmful to aquatic life with long lasting effects

#### **Component Information**

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)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	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-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	7002: STOP Solution
Persistence and degradability	Product is biodegradable
<b>Kit Component</b>	9801: ELISA Wash Buffer (20X)
Persistence and degradability	Not readily biodegradable
12.3. Bioaccumulative potential	
Kit Component	7002: STOP Solution
Bioaccumulation	Not likely to bioaccumulate

Kit Component	7002: 510
Bioaccumulation	Not likely

**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

Kit Component	<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 p-(1,1,3,3-tetramethylbutyl)phenylet	Endocrine disrupting properties, 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 Contaminated packaging	Dispose of in accordance with local regulations. 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 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 14.7 Maritime transport in bulk according to IMO instruments	UN3265 Corrosive liquid, acidic, organic, n.o.s. (maleic acid) 8 III None None None Not regulated
<u>ADR/RID</u> 14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards	UN3265 Corrosive liquid, acidic, organic, n.o.s. (maleic acid) 8 III None

14.6 Special precautions for user None

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	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

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

 Issuing Date:
 2018-01-19

 Revision Date:
 2024-05-22

 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

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