

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

**Issuing Date:** 2018-07-16 **Revision Date:** 2024-06-20 **Version:** 3

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

### 1.1. Product identifier

Product No 15429

Product name FastScan TM Phospho-HSP27 (Ser82) ELISA Kit

**Kit Component** 78106: HSP27 Mouse Capture mAb

28915: Phospho-HSP27 (Ser 82) Rabbit HRP-linked mAb

9801: ELISA Wash Buffer (20X)

7004: TMB Substrate 7002: STOP Solution

16076: FastScan™ ELISA Capture Antibody Diluent 28120: FastScan™ ELISA HRP Antibody Diluent 69905: FastScan™ ELISA Cell Extraction Buffer (5X)

25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X) 63211: FastScan™ ELISA Kit #15429 Positive Control Type 1

### **Hazardous Components**

16076: FastScan™ ELISA Capture Antibody Diluent 28120: FastScan™ ELISA HRP Antibody Diluent 69905: FastScan™ ELISA Cell Extraction Buffer (5X)

25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X)

9801: ELISA Wash Buffer (20X)

7002: STOP Solution

## Contains

Chemical name	<b>Index No.</b>	<b>CAS No</b>
maleic acid (0 - 10%)	607-095-00-3	110-16-7
sodium dodecyl sulphate (0 - 10%)	Not Listed	151-21-3
sodium fluoride (0 - 10%)	009-004-00-7	7681-49-4
trisodium tetraoxovanadate (0 - 10%) polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether (0 - 10	Not Listed Not Listed %)	13721-39-6 9002-93-1
alpha-toluenesulphonyl fluoride (0 - 10%) 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) (0 - 10%)	613-167-00-5	329-98-6 55965-84-9

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** For Research Use Only. Not for Use in Diagnostic Procedures.

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

**Importer** 

Cell Signaling Technology Europe B.V.

Dellaertweg 9b 2316 WZ Leiden The Netherlands

TEL: +31 (0)71 7200 200 FAX: +31 (0)71 891 0019

Manufacturer

Cell Signaling Technology, Inc.

3 Trask Lane Danvers, MA 01923 United States

TEL: +1 978 867 2300 FAX: +1 978 867 2400

Website www.cellsignal.com E-mail Address www.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).

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**

### 16076: FastScan™ ELISA Capture Antibody 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	0.0025-0.0125	-	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1C (H314) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH071)	no data available

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

### **Kit Component**

# 28120: FastScan™ ELISA HRP Antibody 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)		0.0015	-	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1C (H314) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available

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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

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)

7002: STOP Solution

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. 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

## 69905: FastScan™ ELISA Cell Extraction Buffer (5X)

WARNING: Causes serious eye damage. May cause an allergic skin reaction. 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	1-<3	618-344-0	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	no data available
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	0.0025-0.0125	-	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1C (H314) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317)	no data available

	Aquatic Acute 1 (H400)	
	Aquatic Chronic 1	
	(H410)	
	(EUH071)	

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

#### **Kit Component**

## 25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X)

WARNING: Causes serious eye irritation. May cause an allergic skin reaction.

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
sodium dodecyl sulphate	151-21-3	1-3	205-788-1	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Acute Tox. 4 (H302) Acute Tox. 3 (H311)	no data available
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	0.001-0.005	•	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1C (H314) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH071)	no data available

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

### **Kit Component**

## 63211: FastScan™ ELISA Kit #15429 Positive Control Type 1

WARNING: May cause an allergic skin reaction

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
sodium dodecyl sulphate	151-21-3	0.1-<1	205-788-1	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Acute Tox. 4 (H302) Acute Tox. 3 (H311)	no data available
sodium fluoride	7681-49-4	1-3	231-667-8	Acute Tox. 3 (H301) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) (EUH032)	no data available
trisodium tetraoxovanadate	13721-39-6	1-3	237-287-9	Acute Tox. 4 (H302)	no data available
alpha-toluenesulphonyl fluoride	329-98-6	0.1-<1	206-350-2	Acute Tox. 3 (301) Skin Corr. 1B (H314)	no data available
reaction mass of: 5-chloro-2-methyl-4-isothi azolin-3-one [EC no. 247-500-7] and	55965-84-9	0.0015-<0.06	-	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 3 (H311) Acute Tox. 2 (H330)	no data available

2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	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)

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** 78106: HSP27 Mouse Capture mAb

28915: Phospho-HSP27 (Ser 82) Rabbit HRP-linked mAb

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

**Eve contact** 

Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed. **General advice** Inhalation

Immediate medical attention is required. May cause allergic respiratory reaction. IF

INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur. Administer oxygen if breathing is difficult.

If not breathing, give artificial respiration.

Immediate medical attention is required. Wash off immediately with soap and plenty of Skin contact

> water removing all contaminated clothes and shoes. May cause an allergic skin reaction. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Consult a physician.

Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without Ingestion

medical advice. If symptoms persist, call a physician. 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. Skin irritation. Eye irritation. Respiratory irritation. May cause an allergic skin reaction including itching, redness, and rash. May cause allergic respiratory reaction. Significant esophageal or gastrointestinal tract irritation or burns may occur following ingestion. 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.

### 4.3. Indication of any immediate medical attention and special treatment needed

May cause sensitization by inhalation and skin contact. Treat symptomatically. Notes to physician

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

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

surrounding environment

No information available **Unsuitable Extinguishing Media** 

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

Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes. Product is or contains a sensitizer.

#### 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. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing. Keep

people away from and upwind of spill/leak. Avoid dust formation.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Do not allow material to contaminate ground water system. Should not be released into the environment.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so. Prevent dust cloud.

Methods for cleaning up

Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled

containers. Clean contaminated surface thoroughly. Prevent product from entering drains.

### 6.4. Reference to other sections

See Sections 8 & 13 for additional information.

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Avoid dust formation.

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

Keep container tightly closed in a dry and well-ventilated place. Protect from light.

#### 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					

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/m³ TWA 2.5 mg/m³	TWA 2.5 mg/m <sup>3</sup>	TWA: 1 mg/m³ 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)					Ceiling / Peak: 0.4 mg/m³ TWA: 0.2 mg/m³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
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>
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
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/m³ STEL 7.5 mg/m³
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/m³ STEL 0.4 mg/m³		•	

Chemical name	European Union	United Kingdom	France	Spain	Germany
sodium fluoride			3	2	Biologische Grenzwerte
			10	3	nach TRGS 903 sind
					zu beachten
trisodium tetraoxovanadate			0.05		
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** Safety glasses with side-shields

**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 78106: HSP27 Mouse Capture mAb

Physical state Solid

Appearance Lyophilized, Powder

Color Green

Kit Component 28915: Phospho-HSP27 (Ser 82) Rabbit HRP-linked mAb

Physical state Solid

Appearance Lyophilized, Powder

Color Red

Kit Component 16076: FastScan™ ELISA Capture Antibody Diluent

Physical state Liquid
Appearance Clear
Color Green
pH 7.4
Remarks @ 20 °C

Kit Component 28120: FastScan™ ELISA HRP Antibody Diluent

Physical state
Color
Brown
pH
6.8-7.2
Remarks
@ 20 °C
Boiling point/range (°C) VALUE
Boiling point/range (°F) VALUE
212

Solubility Soluble in water

Kit Component 7004: TMB Substrate

Physical state Liquid
Appearance Clear
Color Light yellow
pH 3.3-3.8
Remarks @ 20 °C

Kit Component 7002: STOP Solution

Physical state Liquid
Appearance Clear
Color Colorless
pH 1.2
Remarks @ 20 °C

Kit Component 9801: ELISA Wash Buffer (20X)

Physical state Liquid
Appearance Clear
Color Colorless
pH 6.4
Remarks @ 20 °C

Kit Component 69905: FastScan™ ELISA Cell Extraction Buffer (5X)

Physical state Liquid
Appearance Clear
Color light yellow
pH 7

Remarks 8 00 00

Remarks @ 20 °C

Kit Component 25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X)

Physical state Liquid
Appearance Clear
Color Colorless

Kit Component 63211: FastScan™ ELISA Kit #15429 Positive Control Type 1

Physical state Solid

Appearance Lyophilized, Powder

Color White

# **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 reactions

Hazardous polymerization does not occur.

None under normal processing

### 10.4. Conditions to avoid

Excessive heat. Exposure to air or moisture over prolonged periods.

#### 10.5. Incompatible materials

Acids, Alkalis, Strong acids, Strong bases, Strong oxidizing agents, Strong reducing agents, Metals.

## 10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors Carbon oxides (COx)
Nitrogen oxides (NOx)

# **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

## **Product 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
sodium dodecyl sulphate	= 1288 mg/kg (Rat)	= 200 mg/kg (Rabbit)	> 3900 mg/m³ (Rat) 1 h
sodium fluoride	= 52 mg/kg (Rat)	= 175 mg/kg (Rat)	-
trisodium tetraoxovanadate	= 330 mg/kg (rat)	-	-
polyethylene glycol	= 1800 mg/kg (Rat)	-	-
p-(1,1,3,3-tetramethylbutyl)phenylet			
her			
alpha-toluenesulphonyl fluoride	200 (mg/kg) (mice)	-	-
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 78106: HSP27 Mouse Capture mAb

Kit Component 28915: Phospho-HSP27 (Ser 82) Rabbit HRP-linked mAb

Kit Component 28120: FastScan™ ELISA HRP Antibody Diluent

Kit Component 7002: STOP Solution

Kit Component 9801: ELISA Wash Buffer (20X)

Kit Component 69905: FastScan™ ELISA Cell Extraction Buffer (5X)

Eye contact

Kit Component 78106: HSP27 Mouse Capture mAb

Eye contact May cause slight irritation

Kit Component 28915: Phospho-HSP27 (Ser 82) Rabbit HRP-linked mAb

Eye contact May cause slight irritation

Kit Component 28120: FastScan™ ELISA HRP Antibody Diluent

Eye contact May cause temporary eye irritation

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 69905: FastScan™ ELISA Cell Extraction Buffer (5X)

Eye contact May cause irritation

Kit Component 25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X)

Eye contact May cause irritation

Skin contact

Kit Component 78106: HSP27 Mouse Capture mAb

Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

Kit Component 28915: Phospho-HSP27 (Ser 82) Rabbit HRP-linked mAb

Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

Kit Component 16076: FastScan™ ELISA Capture Antibody Diluent

Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

Kit Component 28120: FastScan™ ELISA HRP Antibody Diluent

Skin contact May cause irritation

Kit Component 7002: STOP Solution

Skin contact Corrosive to skin Prolonged contact with skin is harmful

Kit Component 9801: 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 25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X)

Skin contact May cause sensitization by skin contact

Kit Component 63211: FastScan™ ELISA Kit #15429 Positive Control Type 1

Skin contact Irritating to skin

Ingestion

Kit Component 78106: HSP27 Mouse Capture mAb

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Kit Component 28915: Phospho-HSP27 (Ser 82) Rabbit HRP-linked mAb

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Kit Component 28120: FastScan™ ELISA HRP Antibody Diluent

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Kit Component 7002: STOP Solution

Kit Component 9801: ELISA Wash Buffer (20X)

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Kit Component 69905: FastScan™ ELISA Cell Extraction Buffer (5X) Ingestion may cause irritation to mucous membranes

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Symptoms Contains kit components which may cause the following effects, refer to individual

component SDSs for full information on symptoms. Skin irritation. Eye irritation. Respiratory irritation. May cause an allergic skin reaction including itching, redness, and rash. May cause allergic respiratory reaction. Significant esophageal or gastrointestinal tract irritation or burns may occur following ingestion. 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.

Skin and Eye Corrosion/Irritation

Kit Component 7002: STOP Solution

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

Sensitization

Kit Component 78106: HSP27 Mouse Capture mAb

Respiratory Sensitization Respiratory Sensitizer
Skin Sensitization May cause skin sensitization

Kit Component 28915: Phospho-HSP27 (Ser 82) Rabbit HRP-linked mAb

Respiratory Sensitization Respiratory Sensitizer
Skin Sensitization May cause skin sensitization

**Kit Component**Skin Sensitization

16076: FastScan™ ELISA Capture Antibody Diluent
As a precaution the product should be treated as a sensitizer

Kit Component 28120: FastScan™ ELISA HRP Antibody Diluent

Kit Component28120: FastScan™ ELISA HRP Antibody DiluentSkin SensitizationMay cause skin sensitization

**Kit Component**Skin Sensitization **7002: STOP Solution**May cause skin sensitization

Kit Component 9801: ELISA Wash Buffer (20X)

Skin Sensitization Product is or contains a sensitizer. May cause an allergic skin reaction

**Kit Component**Skin Sensitization

69905: FastScan™ ELISA Cell Extraction Buffer (5X)
As a precaution the product should be treated as a sensitizer

Kit Component 25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X)

Skin Sensitization As a precaution the product should be treated as a sensitizer

Kit Component 63211: FastScan™ ELISA Kit #15429 Positive Control Type 1

Skin Sensitization May cause skin sensitization

**Mutagenic effects** 

**Kit Component**Mutagenic effects **7002: STOP Solution**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 9801: ELISA Wash Buffer (20X)

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

maleic acid	-	LC50 5 mg/L (Pimephales promelas)	EC50 250 - 400 mg/L (Daphnia
sodium dodecyl sulphate	subspicatus) 96 h EC50 3.59 - 15.6 mg/L (Pseudokirchneriella subcapitata) 96 h EC50 117 mg/L (Pseudokirchneriella subcapitata) 96 h	96 h  LC50 8 - 12.5 mg/L (Pimephales promelas) 96 h LC50 4.1 mg/L (Leuciscus idus) 48 h LC50 22.1 - 22.8 mg/L (Pimephales promelas) 96 h LC50 4.3 - 8.5 mg/L (Oncorhynchus mykiss) 96 h LC50 4.62 mg/L (Oncorhynchus mykiss) 96 h LC50 4.62 mg/L (Oncorhynchus mykiss) 96 h LC50 4.2 mg/L (Oncorhynchus mykiss) 96 h LC50 7.97 mg/L (Brachydanio rerio) 96 h LC50 9.9 - 20.1 mg/L (Brachydanio rerio) 96 h LC50 4.06 - 5.75 mg/L (Lepomis macrochirus) 96 h LC50 4.2 - 4.8 mg/L (Lepomis macrochirus) 96 h LC50 5.8 - 7.5 mg/L (Pimephales promelas) 96 h LC50 10.2 - 22.5 mg/L (Pimephales promelas) 96 h LC50 13.5 - 18.3 mg/L (Poecilia reticulata) 96 h LC50 1.31 mg/L (Cyprinus carpio) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96	
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 LC50 16.5 mg/L (Oncorhynchus	EC50 98 mg/L (Daphnia magna) 48 h EC50 338 mg/L (Daphnia magna) 48 h
trisodium tetraoxovanadate  polyethylene glycol	-	tshawytscha) 96 h  LC50 8.9 mg/l (Pimephales	- EC50 26 mg/l (Daphnia) 48 h
p-(1,1,3,3-tetramethylbutyl)phenylet her		promelas) 96 h	0 \ 1
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 16076: FastScan™ ELISA Capture Antibody Diluent

Persistence and degradability Not readily biodegradable

**Kit Component** 7002: STOP Solution
Persistence and degradability Product is biodegradable

Kit Component 9801: ELISA Wash Buffer (20X)

Persistence and degradability 
Not readily biodegradable

## 12.3. Bioaccumulative potential

**Kit Component**Bioaccumulation

7002: STOP Solution
Not likely to bioaccumulate

Bioconcentration factor (BCF) 11 (maleic acid)

**Kit Component**Bioaccumulation

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

Chemical name	Octanol-Water Partition Coefficient	
maleic acid	0.32	
sodium dodecyl sulphate	1.6	

# 12.4. Mobility in soil

Kit Component 7002: STOP Solution

Mobility Will likely be mobile in the environment due to its water solubility

Kit Component 9801: ELISA Wash Buffer (20X)

Mobility Will likely be mobile in the environment due to its water solubility

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Endocrine disrupting properties

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
polyethylene glycol	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

Dispose of in accordance with local regulations.

products
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)

## 15429 FastScan ™ Phospho-HSP27 (Ser82) ELISA Kit

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

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)
14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for user
None

IATA

**14.1 UN number** UN3265

**14.2 UN proper shipping name** Corrosive liquid, acidic, organic, n.o.s. (maleic acid)

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for user
None

# **SECTION 15: Regulatory information**

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

Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

	Chemical name	Candidate List of Substances of Very High Concern for Authorization Information	REACH Annex XVII
	polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether (0 - 10%)	Reason for inclusion Endocrine disrupting properties, Article 57f -	-
L		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

H301 - Toxic if swallowed

H302 - Harmful if swallowed

H310 - Fatal in contact with skin

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

H330 - Fatal if inhaled

H335 - May cause respiratory irritation

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

H412 - Harmful to aquatic life with long lasting effects

EUH032 - Contact with acids liberates very toxic gas

EUH071 - Corrosive to the respiratory tract

Classification procedure: Expert judgment and weight of evidence determination.

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**Disclaimer** 

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