

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

**Issuing Date: 2018-07-16** 

Revision Date: 2024-07-11

Version: 3

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

1.1. Product identifier		
Product No 450	57	
Product name Fast	tScan™ Phospho-B	Bad (Ser136) ELISA Kit
23922 9801: 7004: 7002: 16076 28120 69905 25243	: Bad Rabbit Capture mAb : Phospho-Bad (Ser136) Rabben ELISA Wash Buffer (20X) TMB Substrate STOP Solution : FastScan <sup>™</sup> ELISA Capture A : FastScan <sup>™</sup> ELISA HRP Anti : FastScan <sup>™</sup> ELISA Cell Extra : FastScan <sup>™</sup> ELISA Cell Extra : FastScan <sup>™</sup> ELISA Kit #4505	Antibody Diluent ibody Diluent action Buffer (5X) action Enhancer Solution (50X)
Hazardous Components 16076: FastScan™ ELISA Capture Antibody 28120: FastScan™ ELISA HRP Antibody Di 69905: FastScan™ ELISA Cell Extraction B 25243: FastScan™ ELISA Cell Extraction E 9801: ELISA Wash Buffer (20X) 7002: STOP Solution	luent uffer (5X)	
<u>Contains</u> Chemical name maleic acid (0 - 10%)	Index No. 607-095-00-3	<b>CAS No</b> 110-16-7
sodium dodecyl sulphate (0 - 10%) sodium fluoride (0 - 10%)	Not Listed 009-004-00-7	151-21-3 7681-49-4
trisodium tetraoxovanadate (0 - 10%) polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether (0 - 10 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	13721-39-6 9002-93-1 329-98-6 55965-84-9
[EC no. 220-239-6] (3:1) (0 - 10%)		

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

Identified uses

For Research Use Only. Not for Use in Diagnostic Procedures.

1.3. Details of the supplier of the safety data sheet

Importer Cell Signaling Technology Europe B.V. Dellaertweg 9b 2316 WZ Leiden The Netherlands TEL: +31 (0)71 7200 200	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

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

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



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)		0.0025-0.0125	-	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**

#### 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)	55965-84-9	0.0015	-	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)	no data available

				(EUH071)	
This product is considered	a treated article that	incorporates a hiocic	lal product as a prose	rvative with the follow	vina active

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

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**

# 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. 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**

# 57025: FastScan™ ELISA Kit #45057 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)
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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

#### 27139: Bad Rabbit Capture mAb 23922: Phospho-Bad (Ser136) 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

General advice Inhalation	Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed. 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.
Skin contact	Immediate medical attention is required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. May cause an allergic skin reaction.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult a physician.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without 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

Notes to physician	May cause sens	itization by inhalation and	skin contact	Treat symptomatically.
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# **SECTION 5: Firefighting measures**

5.1. 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

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.
For emergency responders	Use personal protection recommended in Section 8.

#### 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/m <sup>3</sup> TWA 2.5 mg/m <sup>3</sup>	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/m <sup>3</sup> STEL 7.5 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)	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>			

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.

<b>Kit Component</b>	<b>27139: Bad Rabbit Capture mAb</b>
Physical state	Solid
Appearance	Lyophilized, Powder
Color	Green
Kit Component	23922: Phospho-Bad (Ser136) Rabbit HRP-linked mAb
Physical state	Solid

Appearance	Lyophilized, Powder
Color	Red
<b>Kit Component</b>	<b>16076: FastScan™ ELISA Capture Antibody Diluent</b>
Physical state	Liquid
Appearance	Clear
Color	Green
pH	7.4
Remarks	@ 20 °C
Kit Component	28120: FastScan™ ELISA HRP Antibody Diluent
Physical state	Liquid
Color	Brown
pH	6.8-7.2
Remarks	@ 20 °C
Boiling point/range (°C) VALUE	100
Boiling point/range (°F) VALUE	212
Solubility	Soluble in water
<b>Kit Component</b>	<b>7004: TMB Substrate</b>
Physical state	Liquid
Appearance	Clear
Color	Light yellow
pH	3.3-3.8
Remarks	@ 20 °C
<b>Kit Component</b>	<b>7002: STOP Solution</b>
Physical state	Liquid
Appearance	Clear
Color	Colorless
pH	1.2
Remarks	@ 20 °C
<b>Kit Component</b>	9801: ELISA Wash Buffer (20X)
Physical state	Liquid
Appearance	Clear
Color	Colorless
pH	6.4
Remarks	@ 20 °C
<b>Kit Component</b>	69905: FastScan™ ELISA Cell Extraction Buffer (5X)
Physical state	Liquid
Appearance	Clear
Color	light yellow
pH	7
Remarks	@ 20 °C
<b>Kit Component</b>	25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X)
Physical state	Liquid
Appearance	Clear
Color	Colorless
<b>Kit Component</b>	<b>57025: FastScan™ ELISA Kit #45057 Positive Control Type 1</b>
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 polymerization does not occur.
Hazardous reactions	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/m <sup>3</sup> (Rat) 1 h
sodium fluoride	= 52 mg/kg (Rat)	= 175 mg/kg (Rat)	-
trisodium tetraoxovanadate	= 330 mg/kg (rat)	-	-
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylet her	= 1800 mg/kg (Rat)	-	-
alpha-toluenesulphonyl fluoride	200 (mg/kg) (mice)	-	-
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-o ne [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	= 53 mg/kg (Rat) = 481 mg/kg (Rat) 232 - 249 mg/kg (Rat) = 120 mg/kg (Rat)	= 200 mg/kg (Rabbit)	= 1.23 mg/L (Rat)4 h = 0.11 mg/L (Rat)4 h

#### Information on likely routes of exposure

Inhalation

**Kit Component** 

Skin contact

**Kit Component** 27139: Bad Rabbit Capture mAb Inhalation May cause allergic respiratory reaction **Kit Component** 23922: Phospho-Bad (Ser136) Rabbit HRP-linked mAb May cause allergic respiratory reaction Inhalation **Kit Component** 28120: FastScan™ ELISA HRP Antibody Diluent Inhalation May cause irritation of respiratory tract **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** 69905: FastScan™ ELISA Cell Extraction Buffer (5X) Inhalation May cause irritation of respiratory tract Eye contact **Kit Component** 27139: Bad Rabbit Capture mAb Eye contact May cause slight irritation **Kit Component** 23922: Phospho-Bad (Ser136) 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** 27139: Bad Rabbit Capture mAb Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons **Kit Component** 23922: Phospho-Bad (Ser136) Rabbit HRP-linked mAb Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

> 16076: FastScan™ ELISA Capture Antibody Diluent Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

Kit Component28120: FastScan™ ELISA HRP Antibody DiluentSkin contactMay cause irritationKit Component7002: STOP Solution

Kit Component Serious eye damage/eye irritation Skin corrosion/irritation Sensitization	Causes skin irritation
Serious eye damage/eye irritation	Causes skin irritation
	9801: ELISA Wash Buffer (20X) Causes serious eye irritation
<b>Kit Component</b>	<b>7002: STOP Solution</b>
Serious eye damage/eye irritation	Risk of serious damage to eyes
Skin corrosion/irritation	Causes burns
Skin and Eye Corrosion/Irritation	
Symptoms	Contains kit components which may cause the following effects, refer to individual component SDSs for full information on symptoms. Skin irritation. Eye irritation. Respirator 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.
Delayed and immediate effects as w	vell as chronic effects from short and long-term exposure
Kit Component	69905: FastScan™ ELISA Cell Extraction Buffer (5X)
Ingestion	Ingestion may cause irritation to mucous membranes
Kit Component	9801: ELISA Wash Buffer (20X)
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
Kit Component	<b>7002: STOP Solution</b>
Ingestion	Ingestion causes burns of the upper digestive and respiratory tract. Harmful if swallowed
Kit Component	28120: FastScan™ ELISA HRP Antibody Diluent
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
Kit Component	23922: Phospho-Bad (Ser136) Rabbit HRP-linked mAb
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
Kit Component	27139: Bad Rabbit Capture mAb
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
Ingestion	
Kit Component	57025: FastScan™ ELISA Kit #45057 Positive Control Type 1
Skin contact	Irritating to skin
Kit Component	25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X)
Skin contact	May cause sensitization by skin contact
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	

Respiratory Sensitization		
Skin Sensitization		

**Kit Component** Respiratory Sensitization Skin Sensitization

Kit Component Skin Sensitization

#### **Mutagenic effects**

Kit Component	7002: STOP Solution
Mutagenic effects	Not mutagenic in AMES Test

Carcinogenic effects

**Reproductive toxicity** 

No information available.

No information available

Respiratory Sensitizer May cause skin sensitization

**Respiratory Sensitizer** 

May cause skin sensitization

May cause skin sensitization

May cause skin sensitization

May cause skin sensitization

9801: ELISA Wash Buffer (20X)

7002: STOP Solution

23922: Phospho-Bad (Ser136) Rabbit HRP-linked mAb

16076: FastScan™ ELISA Capture Antibody Diluent

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

As a precaution the product should be treated as a sensitizer

As a precaution the product should be treated as a sensitizer

57025: FastScan™ ELISA Kit #45057 Positive Control Type 1

28120: FastScan™ ELISA HRP Antibody Diluent

As a precaution the product should be treated as a sensitizer

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

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

Systemic Target Organ Toxicity (STOT)

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

**Aspiration Hazard** 

No information available.

#### 11.2. Information on other hazards

Other adverse effects

No information available.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

**Product Information** 

Kit Component	
Ecotoxicity	

9801: ELISA Wash Buffer (20X) Harmful to aquatic life with long lasting effects

#### **Component Information**

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
maleic acid	-	LC50 5 mg/L (Pimephales promelas) 96 h	EC50 250 - 400 mg/L (Daphnia magna) 48 h
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	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 4.2 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 4.5 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 6.2 - 9.6 mg/L (Pimephales promelas) 96 h LC50 13.5 - 18.3 mg/L (Poecilia reticulata) 96 h LC50 10.8 - 16.6 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	
sodium fluoride	EC50 850 mg/L (Desmodesmus subspicatus) 72 h EC50 272 mg/L (Pseudokirchneriella subcapitata) 96 h	LC50 530 mg/L (Lepomis macrochirus) 96 h LC50 180 mg/L (Pimephales promelas) 96 h LC50 38 - 68 mg/L (Oncorhynchus mykiss) 96 h LC50 830 mg/L (Lepomis macrochirus) 96 h	EC50 98 mg/L (Daphnia magna) 48 h EC50 338 mg/L (Daphnia magna) 48 h
trisodium tetraoxovanadate	-	LC50 16.5 mg/L (Oncorhynchus tshawytscha) 96 h	-
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
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 Persistence and degradability **16076: FastScan™ ELISA Capture Antibody Diluent** Not readily biodegradable

**Kit Component** Persistence and degradability **7002: STOP Solution** Product is biodegradable Kit Component Persistence and degradability 9801: ELISA Wash Buffer (20X) Not readily biodegradable

#### 12.3. Bioaccumulative potential

Kit Component	7002: STOP Solution
Bioaccumulation	Not likely to bioaccumulate
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

<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 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 Not regulated
ADR/RID	UN3265
14.1 UN number	Corrosive liquid, acidic, organic, n.o.s. (maleic acid)
14.2 UN proper shipping name	8
14.3 Transport hazard class(es)	III
14.4 Packing group	None
14.5 Environmental hazards	None
14.6 Special precautions for user	None
IATA	UN3265
14.1 UN number	Corrosive liquid, acidic, organic, n.o.s. (maleic acid)
14.2 UN proper shipping name	8
14.3 Transport hazard class(es)	III
14.4 Packing group	None
14.5 Environmental hazards	None
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	Reason for inclusion Endocrine	-
p-(1,1,	3,3-tetramethylbutyl)phenylether (0 - 10%)	disrupting properties, Article 57f -	
		environment	

#### SEVESO Directive Information

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

-

International inventories
TSCA 8(b)
DSL/NDSL
EINECS/ELINCS
ENCS
IECSC
KECL
PICCS
AICS

#### International inventories legend

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.	
Issuing Date:	2018-07-16	
Revision Date:	2024-07-11	
<u>Disclaimer</u>		

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