

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

**Issuing Date:** 2019-11-19

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Version: 4

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

1.1. Product identifier			
Product No Product name	25587 FastScan™	Total SMAD2 ELIS	SA Kit
Kit Component	83844: SMAD2 Mo 75046: SMAD2 Rat 9801: ELISA Wash 7004: TMB Substra 7002: STOP Solutio 16076: FastScan™ 28120: FastScan™ 69905: FastScan™ 25243: FastScan™	bbit HRP-linked mAb Buffer (20X) ite	ient (5X) cer Solution (50X)
Hazardous Components 9801: ELISA Wash Buffer (20X) 7002: STOP Solution 16076: FastScan™ ELISA Capture A 28120: FastScan™ ELISA HRP Antii 69905: FastScan™ ELISA Cell Extra 25243: FastScan™ ELISA Cell Extra	body Diluent action Buffer (5X)	ution (50X)	
<u>Contains</u> Chemical name maleic acid (0 - 10%)	Index No 607-095-		<b>CAS No</b> 110-16-7
sodium dodecyl sulphate (0 - 10%) polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylethe reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one 247-500-7] and 2-methyl-2H -isothiaz [EC no. 220-239-6] (3:1) (0 - 10%)	613-167- EC no.	d	151-21-3 9002-93-1 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	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



Danger

#### Hazard statement(s)

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

#### Precautionary statement(s)

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

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

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

P273 - Avoid release to the environment.

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

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant.

### 2.3. Other hazards

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

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

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

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

### **Kit Component**

### 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.		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)	no data available

220-239-6] (3:1)	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

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.	55965-84-9	0.0025-0.0125	-	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 3 (H311) Acute Tox. 2 (H330)	no data available

247-500-7] and 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). Polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether is a suspected endocrine disruptor.

### **Kit Component**

### 25243: FastScan<sup>™</sup> 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** 

### 83844: SMAD2 Mouse Capture mAb 75046: SMAD2 Rabbit HRP-linked mAb 7004: TMB Substrate 36916: FastScan™ ELISA Kit #25587 Positive Control Type 2 53257: FastScan™ ELISA Microwell Strip Plate, 96 Well

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

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 sensitization by inhalation and skin contact. Treat symptomatically.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable Extinguishing Media

Unsuitable Extinguishing Media No information

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 personnelAvoid contact with skin, eyes and clothing. Use personal protective equipment. Do not touch<br/>damaged containers or spilled material unless wearing appropriate protective clothing. Keep<br/>people away from and upwind of spill/leak. Avoid dust formation.For emergency respondersUse 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
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/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup>
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
reaction mass of: 5-chloro-2-methyl-4-isothiaz olin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	TWA 0.05 mg/m³ Sh/Sah**	SS-C** S+ TWA 0.2 mg/m <sup>3</sup> STEL 0.4 mg/m <sup>3</sup>			

#### 8.2. Exposure controls

### Appropriate engineering controls

Showers, eyewash stations, and ventilation systems

Individual protection measures, 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.

ner not available or not applicable.	Refer to individual kit component SDS for further information.
<b>Kit Component</b>	83844: SMAD2 Mouse Capture mAb
Physical state	Solid
Appearance	Lyophilized, Powder
Color	Green
<b>Kit Component</b>	<b>75046: SMAD2 Rabbit HRP-linked mAb</b>
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 <sup>™</sup> 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>	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
<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>36916: FastScan™ ELISA Kit #25587 Positive Control Type 2</b>
Physical state	Solid
Appearance	Lyophilized, Powder
Color	White
<b>Kit Component</b>	53257: FastScan™ ELISA Microwell Strip Plate, 96 Well
Physical state	Solid
Appearance	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

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
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylet her	= 1800 mg/kg (Rat)	-	-
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	83844: SMAD2 Mouse Capture mAb
Inhalation	May cause allergic respiratory reaction
Kit Component	75046: SMAD2 Rabbit HRP-linked mAb
Inhalation	May cause allergic respiratory reaction
Kit Component	28120: FastScan™ ELISA HRP Antibody Diluent
Inhalation	May cause irritation of respiratory tract
Kit Component	<b>7002: STOP Solution</b>
Inhalation	Aerosol expected to be irritating based on components
Kit Component	<b>9801: ELISA Wash Buffer (20X)</b>
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	83844: SMAD2 Mouse Capture mAb
Eye contact	May cause slight irritation
Kit Component	75046: SMAD2 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	83844: SMAD2 Mouse Capture mAb
Skin contact	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
Kit Component	75046: SMAD2 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 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	25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X)
Skin contact	May cause sensitization by skin contact
Ingestion	
Kit Component	83844: SMAD2 Mouse Capture mAb
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
Kit Component	75046: SMAD2 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	<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
Kit Component	69905: FastScan™ ELISA Cell Extraction Buffer (5X)
Ingestion	Ingestion may cause irritation to mucous membranes
Delayed and immediate effects as w	vell as chronic effects from short and long-term exposure
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

9801: ELISA Wash Buffer (20X)

83844: SMAD2 Mouse Capture mAb

75046: SMAD2 Rabbit HRP-linked mAb

Causes skin irritation

**Respiratory Sensitizer** 

**Respiratory Sensitizer** 

May cause skin sensitization

May cause skin sensitization

May cause skin sensitization

7002: STOP Solution

**Kit Component** Serious eye damage/eye irritation Causes serious eye irritation Skin corrosion/irritation

### Sensitization

**Kit Component Respiratory Sensitization Skin Sensitization** 

**Kit Component Respiratory Sensitization Skin Sensitization** 

**Kit Component** Skin Sensitization

**Kit Component** Skin Sensitization

**Kit Component** Skin Sensitization

Kit Component Skin Sensitization

**Kit Component** Skin Sensitization

**Kit Component** 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 STOT - single exposure	7002: STOP Solution Respiratory system
Aspiration Hazard	No information available.

11.2. Information on other hazards

May cause skin sensitization 9801: ELISA Wash Buffer (20X)

16076: FastScan™ ELISA Capture Antibody Diluent

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

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

25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X) As a precaution the product should be treated as a sensitizer

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
		96 h	magna) 48 h
sodium dodecyl sulphate	subspicatus) 96 h EC50 3.59 - 15.6 mg/L (Pseudokirchneriella subcapitata) 96 h EC50 117 mg/L	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	
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	<b>9801:</b>
Persistence and degradability	Not rea

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 14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user	UN3265 Corrosive liquid, acidic, organic, n.o.s. (maleic acid) 8 III None None None
IATA 14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user Excepted Quantity	UN3265 Corrosive liquid, acidic, organic, n.o.s. (maleic acid) 8 III None None E1

# **SECTION 15: Regulatory information**

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

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

Chemical name	Candidate List of Substances of Very High Concern for Authorization	REACH Annex XVII
	Information	
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 - Verv toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects H411 - Toxic to aquatic life with long lasting effects EUH071 - Corrosive to the respiratory tract **Classification procedure:** Expert judgment and weight of evidence determination. **Issuing Date:** 

2019-11-19 2024-06-06

Revision Date: Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.