

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

Issuing Date: 2018-07-16

Version: 1

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

### 1.1. Product identifier

**Product No** 57519

**Product name** FastScan™ Total Tau ELISA Kit

**Kit Component**

- 44953: Tau Rabbit Capture mAb
- 57309: Tau 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)
- 70183: FastScan™ ELISA Kit #57519 Positive Control

**Reach registration number** This substance/mixture contains only ingredients which have been registered, or are exempt from registration, according to Regulation (EC) No. 1907/2006.

### Contains

<b>Chemical name</b>	<b>Index No.</b>	<b>CAS No.</b>
sucrose (70 - 80%)	Not Listed	57-50-1
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%)	Not Listed	13721-39-6
polyethylene glycol	Not Listed	9002-93-1
p-(1,1,3,3-tetramethylbutyl)phenylether (0 - 10%)		
reaction mass of:	613-167-00-5	55965-84-9
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%)		

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

**Identified uses** For research use only

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

# 57519 FastScan™ Total Tau ELISA Kit

**Importer (Applicable in EU only)**  
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](http://www.cellsignal.com)  
**E-mail Address** [info@cellsignal.eu](mailto:info@cellsignal.eu)

## 1.4. Emergency telephone number

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

Europe 112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

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

<b>Skin corrosion/irritation</b>	Category 1 - (H314)
<b>Serious eye damage/eye irritation</b>	Category 1 - (H318)
<b>Skin sensitization</b>	Category 1 - (H317)
<b>Chronic aquatic toxicity</b>	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

## 57519 FastScan™ Total Tau ELISA Kit

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

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

Chemical name	CAS No.	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
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)	55965-84-9	0.0025-0.0125	-	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available

### Kit Component 28120: FastScan™ ELISA HRP Antibody Diluent

Chemical name	CAS No.	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
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)	55965-84-9	0.0015	-	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available

### Kit Component 7002: STOP Solution

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)

Chemical name	CAS No.	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
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)	55965-84-9	0.005-0.025	-	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available

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

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Chemical name	CAS No.	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)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-isothiazolin-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. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available

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

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-isothiazolin-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. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available

**Kit Component** 70183: FastScan™ ELISA Kit #57519 Positive Control

Chemical name	CAS No.	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
sucrose	57-50-1	70-80	200-334-9	-	no data available
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-isothiazolin-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-<0.06	-	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available

## 57519 FastScan™ Total Tau ELISA Kit

<b>Kit Component</b>	44953: Tau Rabbit Capture mAb 57309: Tau Rabbit HRP-linked mAb 7004: TMB Substrate
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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

<b>General advice</b>	Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed.
<b>Inhalation</b>	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.
<b>Skin contact</b>	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.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult a physician.
<b>Ingestion</b>	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

<b>Notes to physician</b>	May cause sensitization by inhalation and skin contact. Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable Extinguishing Media</b>	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

<b>For non-emergency personnel</b>	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.
<b>For emergency responders</b>	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. Handle in accordance with good industrial hygiene and safety practice. Provide regular cleaning of equipment, work area and clothing.

**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**

Chemical name	European Union	United Kingdom	France	Spain	Germany
sucrose		STEL 20 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	
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/m <sup>3</sup> Skin
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)					Ceiling / Peak: 0.4 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup>
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
sucrose		TWA 10 mg/m <sup>3</sup> C(A4)			
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
sucrose					TWA 10 mg/m <sup>3</sup> STEL 20 mg/m <sup>3</sup>
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-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	H* TWA 0.05 mg/m <sup>3</sup> Sh/Sah**	SS-C** S+ TWA 0.2 mg/m <sup>3</sup>			

Chemical name	European Union	United Kingdom	France	Spain	Germany
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## 57519 FastScan™ Total Tau ELISA Kit

sodium fluoride			3 10	2 3	Biologische Grenzwerte nach TRGS 903 sind zu beachten
trisodium tetraoxovanadate			0.05		
<b>Chemical name</b>	<b>Austria</b>	<b>Switzerland</b>	<b>Poland</b>	<b>Norway</b>	<b>Ireland</b>
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

###### 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

#### Kit Component

#### 44953: Tau Rabbit Capture mAb

Physical state

Solid

Appearance

Lyophilized Powder

Color

Green

#### Kit Component

#### 57309: Tau 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 VALUE

7.4

Remarks

@ 20 °C

#### Kit Component

#### 28120: FastScan™ ELISA HRP Antibody Diluent

Physical state

Liquid

Color

Brown

pH VALUE

6.8-7.2

Remarks

@ 20 °C

Boiling point/range (°C) VALUE

100

Boiling point/range (°F) VALUE

212

Solubility

Soluble in water

#### Kit Component

#### 7004: TMB Substrate

Physical state

Liquid

Appearance

Clear

Color

Light yellow

pH VALUE

3.3-3.8

Remarks

@ 20 °C

#### Kit Component

#### 7002: STOP Solution

## 57519 FastScan™ Total Tau ELISA Kit

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

<b>Kit Component</b>	<b>9801: ELISA Wash Buffer (20X)</b>
Physical state	Liquid
Appearance	Clear
Color	Colorless
pH VALUE	6.4
Remarks	@ 20 °C

<b>Kit Component</b>	<b>69905: FastScan™ ELISA Cell Extraction Buffer (5X)</b>
Physical state	Liquid
Appearance	Clear
Color	light yellow
pH VALUE	7
Remarks	@ 20 °C

<b>Kit Component</b>	<b>25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X)</b>
Physical state	Liquid
Appearance	Clear
Color	Colorless

<b>Kit Component</b>	<b>70183: FastScan™ ELISA Kit #57519 Positive Control</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

<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous reactions</b>	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 toxicological effects

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## 57519 FastScan™ Total Tau ELISA Kit

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### 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
sucrose	29700 mg/kg (Rat)	-	-
maleic acid	708 mg/kg (Rat)	1,560 mg/kg (Rabbit)	> 0.72 mg/L (Rat) 1h
sodium dodecyl sulphate	= 1288 mg/kg (Rat) = 1783 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)phenylether	= 1800 mg/kg (Rat)	-	-
alpha-toluenesulphonyl fluoride	200 (mg/kg) (mice)	-	-
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)	= 53 mg/kg (Rat) = 481 mg/kg (Rat)	-	= 1.23 mg/L (Rat) 4 h

### Information on likely routes of exposure

#### Inhalation

<b>Kit Component</b> Inhalation	<b>44953: Tau Rabbit Capture mAb</b> May cause allergic respiratory reaction
<b>Kit Component</b> Inhalation	<b>57309: Tau Rabbit HRP-linked mAb</b> May cause allergic respiratory reaction
<b>Kit Component</b> Inhalation	<b>28120: FastScan™ ELISA HRP Antibody Diluent</b> May cause irritation of respiratory tract
<b>Kit Component</b> Inhalation	<b>7002: STOP Solution</b> Aerosol expected to be irritating based on components
<b>Kit Component</b> Inhalation	<b>9801: ELISA Wash Buffer (20X)</b> Avoid breathing vapors or mists May cause irritation of respiratory tract
<b>Kit Component</b> Inhalation	<b>69905: FastScan™ ELISA Cell Extraction Buffer (5X)</b> May cause irritation of respiratory tract

#### Eye contact

<b>Kit Component</b> Eye contact	<b>44953: Tau Rabbit Capture mAb</b> May cause slight irritation
<b>Kit Component</b> Eye contact	<b>57309: Tau Rabbit HRP-linked mAb</b> May cause slight irritation
<b>Kit Component</b> Eye contact	<b>28120: FastScan™ ELISA HRP Antibody Diluent</b> May cause temporary eye irritation
<b>Kit Component</b> Eye contact	<b>7002: STOP Solution</b> May cause irreversible damage to eyes

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**Kit Component**  
Eye contact  
**9801: ELISA Wash Buffer (20X)**  
Expected to be an irritant based on components

**Kit Component**  
Eye contact  
**69905: FastScan™ ELISA Cell Extraction Buffer (5X)**  
May cause irritation

**Kit Component**  
Eye contact  
**25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X)**  
May cause irritation

### Skin contact

**Kit Component**  
Skin contact  
**44953: Tau Rabbit Capture mAb**  
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

**Kit Component**  
Skin contact  
**57309: Tau Rabbit HRP-linked mAb**  
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

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

**Kit Component**  
Skin contact  
**28120: FastScan™ ELISA HRP Antibody Diluent**  
May cause irritation

**Kit Component**  
Skin contact  
**7002: STOP Solution**  
Corrosive to skin. Prolonged contact with skin is harmful

**Kit Component**  
Skin contact  
**9801: ELISA Wash Buffer (20X)**  
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons  
Expected to be an irritant based on components

**Kit Component**  
Skin contact  
**25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X)**  
May cause sensitization by skin contact

**Kit Component**  
Skin contact  
**70183: FastScan™ ELISA Kit #57519 Positive Control**  
Irritating to skin

### Ingestion

**Kit Component**  
Ingestion  
**44953: Tau Rabbit Capture mAb**  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

**Kit Component**  
Ingestion  
**57309: Tau Rabbit HRP-linked mAb**  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

**Kit Component**  
Ingestion  
**28120: FastScan™ ELISA HRP Antibody Diluent**  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

**Kit Component**  
Ingestion  
**7002: STOP Solution**  
Ingestion causes burns of the upper digestive and respiratory tract. Harmful if swallowed

**Kit Component**  
Ingestion  
**9801: ELISA Wash Buffer (20X)**  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

**Kit Component**  
Ingestion  
**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

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## 57519 FastScan™ Total Tau ELISA Kit

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### 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

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

<b>Kit Component</b> Respiratory Sensitization Skin Sensitization	<b>44953: Tau Rabbit Capture mAb</b> Respiratory Sensitizer May cause skin sensitization
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<b>Kit Component</b> Respiratory Sensitization Skin Sensitization	<b>57309: Tau Rabbit HRP-linked mAb</b> Respiratory Sensitizer May cause skin sensitization
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<b>Kit Component</b> Skin Sensitization	<b>16076: FastScan™ ELISA Capture Antibody Diluent</b> As a precaution the product should be treated as a sensitizer
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<b>Kit Component</b> Skin Sensitization	<b>28120: FastScan™ ELISA HRP Antibody Diluent</b> May cause skin sensitization
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<b>Kit Component</b> Skin Sensitization	<b>7002: STOP Solution</b> May cause skin sensitization
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<b>Kit Component</b> Skin Sensitization	<b>9801: ELISA Wash Buffer (20X)</b> Product is or contains a sensitizer. May cause an allergic skin reaction.
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<b>Kit Component</b> Skin Sensitization	<b>69905: FastScan™ ELISA Cell Extraction Buffer (5X)</b> As a precaution the product should be treated as a sensitizer
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<b>Kit Component</b> Skin Sensitization	<b>25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X)</b> As a precaution the product should be treated as a sensitizer
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<b>Kit Component</b> Skin Sensitization	<b>70183: FastScan™ ELISA Kit #57519 Positive Control</b> May cause skin sensitization
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### Mutagenic effects

<b>Kit Component</b> Mutagenic effects	<b>7002: STOP Solution</b> Not mutagenic in AMES Test
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**Carcinogenic effects** No information available

**Reproductive toxicity** No information available.

### Systemic Target Organ Toxicity (STOT)

**57519 FastScan™ Total Tau ELISA Kit**

**Kit Component**  
STOT - single exposure

**7002: STOP Solution**  
Respiratory system

**Aspiration Hazard**

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	EC50 53 mg/L (Desmodesmus subspicatus) 72 h EC50 30 - 100 mg/L (Desmodesmus subspicatus) 96 h EC50 42 mg/L (Desmodesmus 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	EC50 21.2 mg/L (Daphnia magna) 24 h EC50 1.8 mg/L (Daphnia magna) 48 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)phenylether	-	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-one [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**

## 57519 FastScan™ Total Tau ELISA Kit

<b>Kit Component</b> Persistence and degradability	<b>16076: FastScan™ ELISA Capture Antibody Diluent</b> Not readily biodegradable
<b>Kit Component</b> Persistence and degradability	<b>7002: STOP Solution</b> Product is biodegradable
<b>Kit Component</b> Persistence and degradability	<b>9801: ELISA Wash Buffer (20X)</b> Not readily biodegradable

### 12.3. Bioaccumulative potential

<b>Kit Component</b> Bioaccumulation Bioconcentration factor (BCF)	<b>7002: STOP Solution</b> Not likely to bioaccumulate 11 (maleic acid)
<b>Kit Component</b> Bioaccumulation	<b>9801: ELISA Wash Buffer (20X)</b> 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> Mobility	<b>7002: STOP Solution</b> Will likely be mobile in the environment due to its water solubility
<b>Kit Component</b> Mobility	<b>9801: ELISA Wash Buffer (20X)</b> 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. Other adverse effects

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether	Group III Chemical	-	-

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Other information</b>	Waste codes should be assigned by the user based on the application for which the product

was used.

## SECTION 14: Transport information

This material is subject to regulation as a hazardous material for shipping:

### IMDG/IMO

14.1 UN number	UN3265
14.2 UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (maleic acid)
14.3 Transport hazard class(es)	8
14.4 Packing group	III
14.5 Environmental hazards	None
14.6 Special precautions for user	None
EmS No.	F-A, S-B
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated

### 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)	8
14.4 Packing group	III
14.5 Environmental hazards	None
14.6 Special precautions for user	None
Classification Code	C3
Tunnel Restriction Code	(E)

### 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)	8
14.4 Packing group	III
14.5 Environmental hazards	None
14.6 Special precautions for user	None
Special provisions	A3, A803
ERG code	8L
Excepted Quantity	E1

## SECTION 15: Regulatory information

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

#### Candidate List of Substances of Very High Concern for Authorization Information

Chemical name	Candidate List of Substances of Very High Concern for Authorization Information
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether (0 - 10%)	Reason for inclusion Endocrine 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**

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

**Classification procedure:** Expert judgment and weight of evidence determination.

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

**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.**