

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	38107
Product name	FastScan™ Phospho-Vimentin (Ser56) ELISA Kit
Kit Component	19225: Vimentin Rabbit Capture mAb 48878: Phospho-Vimentin (Ser56) Rabbit HRP-linked mAb 9801: ELISA Wash Buffer (20X) 7004: TMB Substrate 7002: STOP Solution 16076: FastScan™ ELISA Capture Antibody Diluent 28120: FastScan™ ELISA HRP Antibody Diluent 69905: FastScan™ ELISA Cell Extraction Buffer (5X) 25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X) 81235: FastScan™ ELISA Kit #38107 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

Chemical name	Index No.	CAS No.
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

38107 FastScan™ Phospho-Vimentin (Ser56) 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
E-mail Address 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.

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

2.2. Label elements



Signal word
Danger

Hazard statement(s)

H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H412 - Harmful to aquatic life with long lasting effects

Precautionary statement(s)

P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P272 - Contaminated work clothing should not be allowed out of the workplace
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

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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 81235: FastScan™ ELISA Kit #38107 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

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Kit Component	19225: Vimentin Rabbit Capture mAb 48878: Phospho-Vimentin (Ser56) 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

General advice	Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed.
Inhalation	Immediate medical attention is required. May cause allergic respiratory reaction. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur. Administer oxygen if breathing is difficult. If not breathing, give artificial respiration.
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.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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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 ³ TWA 10 mg/m ³	TWA 10 mg/m ³	TWA 10 mg/m ³	
sodium fluoride	TWA 2.5 mg/m ³	STEL 7.5 mg/m ³ TWA 2.5 mg/m ³	TWA 2 mg/m ³ TWA 2.5 mg/m ³	TWA 2.5 mg/m ³	TWA: 1 mg/m ³ 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 ³ TWA: 0.2 mg/m ³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
sucrose		TWA 10 mg/m ³ C(A4)			
sodium fluoride	TWA 2.5 mg/m ³	TWA 2.5 mg/m ³ C(A4)		TWA 2.5 mg/m ³	TWA 2.5 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
sucrose					TWA 10 mg/m ³ STEL 20 mg/m ³
sodium fluoride			TWA 2 mg/m ³	TWA 0.5 mg/m ³ STEL 1.5 mg/m ³	TWA 2.5 mg/m ³ STEL 7.5 mg/m ³
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 ³ Sh/Sah**	SS-C** S+ TWA 0.2 mg/m ³			

Chemical name	European Union	United Kingdom	France	Spain	Germany
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sodium fluoride			3 10	2 3	Biologische Grenzwerte 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

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

Physical state
Appearance
Color

Green Capture Antibody (Lyophilized)

Solid
Lyophilized Powder
Green

Kit Component

Physical state
Appearance
Color

48878: Phospho-Vimentin (Ser56) Rabbit HRP-linked mAb

Solid
Lyophilized Powder
Red

Kit Component

Physical state
Appearance
Color
pH VALUE
Remarks

16076: FastScan™ ELISA Capture Antibody Diluent

Liquid
Clear
Green
7.4
@ 20 °C

Kit Component

Physical state
Color
pH VALUE
Remarks
Boiling point/range (°C) VALUE
Boiling point/range (°F) VALUE
Solubility

28120: FastScan™ ELISA HRP Antibody Diluent

Liquid
Brown
6.8-7.2
@ 20 °C
100
212
Soluble in water

Kit Component

Physical state
Appearance
Color
pH VALUE
Remarks

7004: TMB Substrate

Liquid
Clear
Light yellow
3.3-3.8
@ 20 °C

Kit Component

7002: STOP Solution

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

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

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

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

Kit Component	Lyophilized Control Lysate
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 toxicological effects

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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 ³ (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

Kit Component Inhalation	19225: Vimentin Rabbit Capture mAb May cause allergic respiratory reaction
Kit Component Inhalation	48878: Phospho-Vimentin (Ser56) Rabbit HRP-linked mAb May cause allergic respiratory reaction
Kit Component Inhalation	28120: FastScan™ ELISA HRP Antibody Diluent May cause irritation of respiratory tract
Kit Component Inhalation	7002: STOP Solution Aerosol expected to be irritating based on components
Kit Component Inhalation	9801: ELISA Wash Buffer (20X) Avoid breathing vapors or mists May cause irritation of respiratory tract
Kit Component Inhalation	69905: FastScan™ ELISA Cell Extraction Buffer (5X) May cause irritation of respiratory tract

Eye contact

Kit Component Eye contact	19225: Vimentin Rabbit Capture mAb May cause slight irritation
Kit Component Eye contact	48878: Phospho-Vimentin (Ser56) Rabbit HRP-linked mAb May cause slight irritation
Kit Component Eye contact	28120: FastScan™ ELISA HRP Antibody Diluent May cause temporary eye irritation
Kit Component Eye contact	7002: STOP Solution 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
19225: Vimentin Rabbit Capture mAb
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

Kit Component
Skin contact
48878: Phospho-Vimentin (Ser56) 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
81235: FastScan™ ELISA Kit #38107 Positive Control
Irritating to skin

Ingestion

Kit Component
Ingestion
19225: Vimentin Rabbit Capture mAb
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Kit Component
Ingestion
48878: Phospho-Vimentin (Ser56) 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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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
Skin corrosion/irritation	Causes burns
Serious eye damage/eye irritation	Risk of serious damage to eyes

Kit Component	9801: ELISA Wash Buffer (20X)
Skin corrosion/irritation	Causes skin irritation
Serious eye damage/eye irritation	Causes serious eye irritation

Sensitization

Kit Component	19225: Vimentin Rabbit Capture mAb
Respiratory Sensitization	Respiratory Sensitizer
Skin Sensitization	May cause skin sensitization

Kit Component	48878: Phospho-Vimentin (Ser56) Rabbit HRP-linked mAb
Respiratory Sensitization	Respiratory Sensitizer
Skin Sensitization	May cause skin sensitization

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

Kit Component	28120: FastScan™ ELISA HRP Antibody Diluent
Skin Sensitization	May cause skin sensitization

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

Kit Component	9801: ELISA Wash Buffer (20X)
Skin Sensitization	Product is or contains a sensitizer. May cause an allergic skin reaction.

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

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

Kit Component	81235: FastScan™ ELISA Kit #38107 Positive Control
Skin Sensitization	May cause skin sensitization

Mutagenic effects

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

Carcinogenic effects No information available

Reproductive toxicity No information available.

Systemic Target Organ Toxicity (STOT)

38107 FastScan™ Phospho-Vimentin (Ser56) 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

38107 FastScan™ Phospho-Vimentin (Ser56) ELISA Kit

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 Bioaccumulation Bioconcentration factor (BCF)	7002: STOP Solution Not likely to bioaccumulate 11 (maleic acid)
Kit Component Bioaccumulation	9801: ELISA Wash Buffer (20X) Not likely to bioaccumulate

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

12.4. Mobility in soil

Kit Component Mobility	7002: STOP Solution Will likely be mobile in the environment due to its water solubility
Kit Component Mobility	9801: ELISA Wash Buffer (20X) 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

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

was used.

SECTION 14: Transport information

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

IMDG/IMO

14.1 UN number	UN3265
14.2 UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (maleic acid)
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.

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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.