

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

Issuing Date: 2018-07-16 Revision Date: 2024-07-11 Version: 3

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

1.1. Product identifier

Product No 41165

Product name FastScan™ Phospho-GSK-3α (Ser21) ELISA Kit

Kit Component 63864: GSK-3α Rabbit Capture mAb

85722: Phospho-GSK-3α (Ser21) 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) 18888: FastScan™ ELISA Kit #41165 Positive Control Type 1

Hazardous Components

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

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

9801: ELISA Wash Buffer (20X)

7002: STOP Solution

Contains

Chemical name maleic acid (0 - 10%)	Index No. 607-095-00-3	CAS No 110-16-7
sodium dodecyl sulphate (0 - 10%) sodium fluoride (0 - 10%)	Not Listed 009-004-00-7	151-21-3 7681-49-4
trisodium tetraoxovanadate (0 - 10%) polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether (0 - 1	Not Listed Not Listed 0%)	13721-39-6 9002-93-1
alpha-toluenesulphonyl fluoride (0 - 10%) reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-or	- 613-167-00-5 o.	329-98-6 55965-84-9

[EC no. 220-239-6] (3:1) (0 - 10%)

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

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

1.3. Details of the supplier of the safety data sheet

Importer

Cell Signaling Technology Europe B.V. Dellaertweg 9b 2316 WZ Leiden The Netherlands

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

www.cellsignal.com Website 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)

Manufacturer

3 Trask Lane

United States

Danvers, MA 01923

TEL: +1 978 867 2300

FAX: +1 978 867 2400

Cell Signaling Technology, Inc.

112 **Europe**

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

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

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

2.2. Label elements



Signal word Danger

Hazard statement(s)

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

Precautionary statement(s)

- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash face, hands and any exposed skin thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

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

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

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

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

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

2.3. Other hazards

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

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

SECTION 3. Composition/information on ingredients

Kit Component

16076: FastScan™ ELISA Capture Antibody Diluent

WARNING: May cause an allergic skin reaction.

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
reaction mass of: 5-chloro-2-methyl-4-isothi azolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	0.0025-0.0125	-	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1C (H314) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH071)	no data available

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

Kit Component

28120: FastScan™ ELISA HRP Antibody Diluent

WARNING: May cause an allergic skin reaction.

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
reaction mass of: 5-chloro-2-methyl-4-isothi azolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)		0.0015	-	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1C (H314) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available

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

Kit Component 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. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1C (H314) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH071)	no data available

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

Kit Component

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

WARNING: Causes serious eye damage. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
polyethylene glycol p-(1,1,3,3-tetramethylbut yl)phenylether	9002-93-1	1-<3	618-344-0	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	no data available
reaction mass of: 5-chloro-2-methyl-4-isothi azolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	0.0025-0.0125	-	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1C (H314) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317)	no data available

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

This product is considered a treated article that incorporates a biocidal product as a preservative with the following active ingredient: Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT). Polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether is a suspected endocrine disruptor.

Kit Component

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

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

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
sodium dodecyl sulphate	151-21-3	1-3	205-788-1	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Acute Tox. 4 (H302) Acute Tox. 3 (H311)	no data available
reaction mass of: 5-chloro-2-methyl-4-isothi azolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	0.001-0.005	-	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1C (H314) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH071)	no data available

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

Kit Component

18888: FastScan™ ELISA Kit #41165 Positive Control Type 1

WARNING: May cause an allergic skin reaction

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

2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	Skin Corr. 1C (H314) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
	(EUH071)

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

Kit Component 63864: GSK-3α Rabbit Capture mAb

85722: Phospho-GSK-3α (Ser21) Rabbit HRP-linked mAb

7004: TMB Substrate

These products do not contain substances at concentrations requiring disclosure under (EC) No. 1907/2006 (REACH).

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Eye contact

General advice 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

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. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

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

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

medical advice. If symptoms persist, call a physician. Never give anything by mouth to an

unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Contains kit components which may cause the following effects, refer to individual component SDSs for full information on symptoms. Skin irritation. Eye irritation. Respiratory irritation. May cause an allergic skin reaction including itching, redness, and rash. May cause allergic respiratory reaction. Significant esophageal or gastrointestinal tract irritation or burns may occur following ingestion. Respiratory tract irritation, if severe, can progress to pulmonary edema which may be delayed in onset up to 24 to 72 hours after exposure in some cases.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Avoid contact with skin, eyes and clothing. Use personal protective equipment. Do not touch For non-emergency personnel

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

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

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

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

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

6.4. Reference to other sections

See Sections 8 & 13 for additional information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Use as a laboratory reagent.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

Chemical name	European Union	United Kingdom	France	Spain	Germany
sodium fluoride	TWA 2.5 mg/m ³	STEL 7.5 mg/m ³ TWA 2.5 mg/m ³	TWA 2 mg/m³ TWA 2.5 mg/m³	TWA 2.5 mg/m ³	TWA: 1 mg/m³ Skin
reaction mass of:					Ceiling / Peak: 0.4
5-chloro-2-methyl-4-isothiaz					mg/m³
olin-3-one [EC no.					TWA: 0.2 mg/m ³
247-500-7] and 2-methyl-2H					
-isothiazol-3-one [EC no.					
220-239-6] (3:1)					
Chemical name	ltaly	Portugal	Netherlands	Finland	Denmark
sodium fluoride	TWA 2.5 mg/m ³	TWA 2.5 mg/m ³		TWA 2.5 mg/m ³	TWA 2.5 mg/m ³
		C(A4)			_
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
sodium fluoride			TWA 2 mg/m ³	TWA 0.5 mg/m ³	TWA 2.5 mg/m ³
				STEL 1.5 mg/m ³	STEL 7.5 mg/m ³
reaction mass of:	TWA 0.05 mg/m ³	SS-C**			
5-chloro-2-methyl-4-isothiaz	Sh/Sah**	S+			
olin-3-one [EC no.		TWA 0.2 mg/m ³			
247-500-7] and 2-methyl-2H		STEL 0.4 mg/m ³			
-isothiazol-3-one [EC no.					
220-239-6] (3:1)					

Chemical name	European Union	United Kingdom	France	Spain	Germany
sodium fluoride			3	2	Biologische Grenzwerte
			10	3	nach TRGS 903 sind
					zu beachten
trisodium tetraoxovanadate			0.05		
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
sodium fluoride		4			

8.2. Exposure controls

Appropriate engineering controls

Showers, eyewash stations, and ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses with side-shields

Skin protection Wear protective gloves and protective clothing

Hand protection Impervious gloves

Other Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation wear respiratory protection

Environmental Exposure Controls

No information available

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Information on the known physical chemical properties of each component within Kit are given below. If not included, information is either not available or not applicable. Refer to individual kit component SDS for further information.

Kit Component 63864: GSK-3α Rabbit Capture mAb

Physical state Solid

Appearance Lyophilized, Powder

Color Green

Kit Component 85722: Phospho-GSK-3α (Ser21) Rabbit HRP-linked mAb

Physical state Solid

Appearance Lyophilized, Powder

Color Red

Kit Component 16076: FastScan™ ELISA Capture Antibody Diluent

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

Kit Component 28120: FastScan™ ELISA HRP Antibody Diluent

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

Solubility Soluble in water

Kit Component 7004: TMB Substrate

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

Kit Component 7002: STOP Solution

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

Kit Component 9801: ELISA Wash Buffer (20X)

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

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

Physical state Liquid
Appearance Clear
Color light yellow
pH 7
Remarks @ 20 °C

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

Physical state Liquid
Appearance Clear
Color Colorless

Kit Component 18888: FastScan™ ELISA Kit #41165 Positive Control Type 1

Physical state Solid

Appearance Lyophilized, Powder

Color White

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization Hazardous reactions

Hazardous polymerization does not occur.

None under normal processing

10.4. Conditions to avoid

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

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

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

Product Information

This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxicological and physiological properties of this compound is not well defined.

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
maleic acid	708 mg/kg (Rat)	1,560 mg/kg (Rabbit)	> 0.72 mg/L (Rat) 1h
sodium dodecyl sulphate	= 1288 mg/kg (Rat)	= 200 mg/kg (Rabbit)	> 3900 mg/m³ (Rat) 1 h
sodium fluoride	= 52 mg/kg (Rat)	= 175 mg/kg (Rat)	-
trisodium tetraoxovanadate	= 330 mg/kg (rat)	•	-
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylet her	= 1800 mg/kg (Rat)	-	-
alpha-toluenesulphonyl fluoride	200 (mg/kg) (mice)	-	-
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-o ne [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	= 53 mg/kg (Rat) = 481 mg/kg (Rat) 232 - 249 mg/kg (Rat) = 120 mg/kg (Rat)	= 200 mg/kg (Rabbit)	= 1.23 mg/L (Rat)4 h = 0.11 mg/L (Rat)4 h

Information on likely routes of exposure

Inhalation

63864: GSK-3α Rabbit Capture mAb Kit Component Inhalation

May cause allergic respiratory reaction

Kit Component 85722: Phospho-GSK-3α (Ser21) Rabbit HRP-linked mAb

May cause allergic respiratory reaction Inhalation

Kit Component 28120: FastScan™ ELISA HRP Antibody Diluent

Inhalation May cause irritation of respiratory tract

Kit Component 7002: STOP Solution

Inhalation Aerosol expected to be irritating based on components

Kit Component 9801: ELISA Wash Buffer (20X)

Inhalation Avoid breathing vapors or mists May cause irritation of respiratory tract

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

Inhalation May cause irritation of respiratory tract

Eye contact

63864: GSK-3α Rabbit Capture mAb Kit Component

Eye contact May cause slight irritation

Kit Component 85722: Phospho-GSK-3α (Ser21) 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 63864: GSK-3α Rabbit Capture mAb

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

Kit Component 85722: Phospho-GSK-3α (Ser21) 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

7002: STOP Solution Kit Component

Skin contact Corrosive to skin Prolonged contact with skin is harmful

Kit Component 9801: ELISA Wash Buffer (20X)

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

Expected to be an irritant based on components

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

Skin contact May cause sensitization by skin contact

Kit Component 18888: FastScan™ ELISA Kit #41165 Positive Control Type 1

Skin contact Irritating to skin

Ingestion

Kit Component 63864: GSK-3α Rabbit Capture mAb

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

Kit Component 85722: Phospho-GSK-3α (Ser21) Rabbit HRP-linked mAb

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

Kit Component 28120: FastScan™ ELISA HRP Antibody Diluent

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

Kit Component 7002: STOP Solution

Kit Component 9801: ELISA Wash Buffer (20X)

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

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

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

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

component SDSs for full information on symptoms. Skin irritation. Eye irritation. Respiratory irritation. May cause an allergic skin reaction including itching, redness, and rash. May cause allergic respiratory reaction. Significant esophageal or gastrointestinal tract irritation or burns may occur following ingestion. Respiratory tract irritation, if severe, can progress to pulmonary edema which may be delayed in onset up to 24 to 72 hours after exposure in

some cases.

Skin and Eye Corrosion/Irritation

Kit Component 7002: STOP Solution

Serious eye damage/eye irritation Risk of serious damage to eyes

Skin corrosion/irritation Causes burns

Kit Component 9801: ELISA Wash Buffer (20X)

Serious eye damage/eye irritation Causes serious eye irritation

Skin corrosion/irritation Causes skin irritation

Sensitization

Kit Component 63864: GSK-3α Rabbit Capture mAb

Respiratory Sensitization Respiratory Sensitizer
Skin Sensitization May cause skin sensitization

Kit Component 85722: Phospho-GSK-3α (Ser21) Rabbit HRP-linked mAb

Respiratory Sensitization Respiratory Sensitizer
Skin Sensitization May cause skin sensitization

Kit ComponentSkin Sensitization

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

Kit Component 28120: FastScan™ ELISA HRP Antibody Diluent

Skin Sensitization May cause skin sensitization

Kit ComponentSkin Sensitization **7002: STOP Solution**May cause skin sensitization

Kit Component 9801: ELISA Wash Buffer (20X)

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

Kit Component69905: 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 18888: FastScan™ ELISA Kit #41165 Positive Control Type 1

Skin Sensitization May cause skin sensitization

Mutagenic effects

Kit ComponentMutagenic effects

7002: STOP Solution
Not mutagenic in AMES Test

Carcinogenic effects No information available

Reproductive toxicity No information available.

Systemic Target Organ Toxicity

(STOT)

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

Aspiration Hazard No information available.

11.2. Information on other hazards

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Product Information

Kit Component 9801: ELISA Wash Buffer (20X)

Ecotoxicity Harmful to aquatic life with long lasting effects

Component Information

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
maleic acid	-	LC50 5 mg/L (Pimephales promelas) 96 h	EC50 250 - 400 mg/L (Daphnia magna) 48 h
sodium dodecyl sulphate	subspicatus) 96 h EC50 3.59 - 15.6 mg/L (Pseudokirchneriella subcapitata) 96 h EC50 117 mg/L (Pseudokirchneriella subcapitata) 96 h	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 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 LC50 15 - 18.9 mg/L (Pimephales promelas) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96 h LC50 15 - 18.9 mg/L (Pimephales promelas) 96	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	LC50 530 mg/L (Lepomis macrochirus) 96 h	EC50 98 mg/L (Daphnia magna) 48 h
	(Pseudokirchneriella subcapitata) 96 h	promelas) 96 h LC50 38 - 68 mg/L (Oncorhynchus mykiss) 96 h LC50 830 mg/L (Lepomis macrochirus) 96 h	EC50 338 mg/L (Daphnia magna) 48 h
trisodium tetraoxovanadate	-	LC50 16.5 mg/L (Oncorhynchus tshawytscha) 96 h	-
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylet her	-	LC50 8.9 mg/l (Pimephales promelas) 96 h	EC50 26 mg/l (Daphnia) 48 h
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-o ne [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	EC50 0.11 - 0.16 mg/L (Pseudokirchneriella subcapitata) 72 h EC50 0.31 mg/L (Anabaena flos-aquae) 120 h EC50 0.03 - 0.13 mg/L (Pseudokirchneriella subcapitata) 96 h	LC50 1.6 mg/L (Oncorhynchus mykiss) 96 h	EC50 4.71 mg/L (Daphnia magna) 48 h EC50 0.71 - 0.99 mg/L (Daphnia magna) 48 h EC50 0.12 - 0.3 mg/L (Daphnia magna) 48 h

12.2. Persistence and degradability

Kit Component 16076: FastScan™ ELISA Capture Antibody Diluent

Persistence and degradability
Not readily biodegradable

Kit ComponentPersistence and degradability

7002: STOP Solution
Product is biodegradable

Kit Component 9801: ELISA Wash Buffer (20X)

Persistence and degradability
Not readily biodegradable

12.3. Bioaccumulative potential

Kit ComponentBioaccumulation

7002: STOP Solution
Not likely to bioaccumulate

Bioconcentration factor (BCF) 11 (maleic acid)

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

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

12.4. Mobility in soil

Kit Component 7002: STOP Solution

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

Kit Component 9801: ELISA Wash Buffer (20X)

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

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Endocrine disrupting properties

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

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)

14.3Transport hazard class(es)814.4Packing groupIII14.5Environmental hazardsNone14.6Special precautions for userNone

14.7 Maritime transport in bulk Not regulated

according to IMO instruments

ADR/RID

14.1 UN number UN3265

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

14.3Transport hazard class(es)814.4Packing groupIII14.5Environmental hazardsNone14.6Special precautions for userNone

IATA

14.1 UN number UN3265

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

14.3Transport hazard class(es)814.4Packing groupIII14.5Environmental hazardsNone14.6Special precautions for userNone

SECTION 15: Regulatory information

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

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

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

SEVESO Directive Information

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

International inventories

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

International inventories legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out

SECTION 16: Other information

Full text of H-Statements referred to under Sections 2 and 3

H301 - Toxic if swallowed

H302 - Harmful if swallowed

H310 - Fatal in contact with skin

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

EUH032 - Contact with acids liberates very toxic gas

EUH071 - Corrosive to the respiratory tract

Classification procedure: Expert judgment and weight of evidence determination.

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Disclaimer

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.