

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

Issuing Date: 2018-07-16 **Revision Date:** 2020-03-02 **Version:** 2

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

1.1. Product identifier

Product No 34440

Product name FastScanTM Phospho-Zap-70 (Tyr319) ELISA Kit

Kit Component 46020: Zap-70 Mouse Capture mAb

56819: Phospho-Zap-70 (Tyr319)/Syk (Tyr352) 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) 56801: FastScan™ ELISA Kit #34440 Positive Control Type 2

Contains

Chemical name	Index No.	CAS No
maleic acid (0 - 10%)	607-095-00-3	110-16-7
sodium dodecyl sulphate (0 - 10%	6) Not Listed	151-21-3
polyethylene glycol	Not Listed	9002-93-1
p-(1,1,3,3-tetramethylbutyl)pheny	rlether (0 - 10%)	
reaction mass of:	613-167-00-5	55965-84-9
5-chloro-2-methyl-4-isothiazolin-3	3-one [EC no.	
247-500-7] and 2-methyl-2H -iso	thiazol-3-one	
[EC no. 220-239-6] (3:1) (0 - 10%	5)	

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

Importer Manufacturer

Cell Signaling Technology Europe B.V. Cell Signaling Technology, Inc.

Dellaertweg 9b 3 Trask Lane
2316 WZ Leiden Danvers, MA 01923
The Netherlands United States

TEL: +31 (0)71 7200 200 TEL: +1 978 867 2300 FAX: +31 (0)71 891 0019 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

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

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
reaction mass of: 5-chloro-2-methyl-4-isothi azolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)		0.0025-0.0125	-	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 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

rate oomponone	20120. I dotocan Ello/tTitti /titibody Bildent				
Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
reaction mass of: 5-chloro-2-methyl-4-isothia zolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	0.0015	-	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 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

7002: STOP Solution

Kit Component	7002. 3	TOT 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)

Ait Component	3001. L	LIGHT WASH DUNCT (2)			
Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
reaction mass of:	55965-84-9	0.005-0.025	-	Acute Tox. 3 (H301)	no data available

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)	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)

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)

rate demperiorit	65565. I delocali Elective dell'Extraction Baller (677)				
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) 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

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

Tut Component	202+0.1 dotodan Elion och Extraction Enhancer Colution (50%)				
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 46020: Zap-70 Mouse Capture mAb

56819: Phospho-Zap-70 (Tyr319)/Syk (Tyr352) Rabbit HRP-linked mAb

7004: TMB Substrate

56801: FastScan™ ELISA Kit #34440 Positive Control Type 2

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.

Immediate medical attention is required. Wash off immediately with soap and plenty of Skin contact

> 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.

Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting Ingestion

without medical advice. If symptoms persist, call a physician. Never give anything by mouth

to an unconscious person.

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

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

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Eye contact

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

No information available. **Unsuitable Extinguishing Media**

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.

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 upSoak 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
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	Austria	Switzerland	Poland	Norway	Ireland
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.					

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

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 46020: Zap-70 Mouse Capture mAb

Physical state Solid

Appearance Lyophilized Powder

Color Green

Kit Component 56819: Phospho-Zap-70 (Tyr319)/Syk (Tyr352) 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

Color

pH VALUE

Remarks

@ 20 °C

Boiling point/range (°C) VALUE

Boiling point/range (°F) VALUE

212

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

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

Remarks @ 20 °C

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

Physical state Liquid
Appearance Clear
Color Colorless

Kit Component 56801: FastScan™ ELISA Kit #34440 Positive Control Type 2

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 toxicological effects

Product Information

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

Component Information

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

Information on likely routes of exposure

Inhalation

Kit ComponentInhalation
46020: Zap-70 Mouse Capture mAb
May cause allergic respiratory reaction

Kit Component 56819: Phospho-Zap-70 (Tyr319)/Syk (Tyr352) Rabbit HRP-linked mAb

Inhalation May cause allergic respiratory reaction

Kit Component 28120: FastScan™ ELISA HRP Antibody Diluent

Inhalation May cause irritation of respiratory tract

Kit Component 7002: STOP Solution

Inhalation Aerosol expected to be irritating based on components

Kit Component 9801: ELISA Wash Buffer (20X)

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

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

Inhalation May cause irritation of respiratory tract

Eye contact

Kit Component 46020: Zap-70 Mouse Capture mAb

Eye contact May cause slight irritation

Kit Component 56819: Phospho-Zap-70 (Tyr319)/Syk (Tyr352) 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 46020: Zap-70 Mouse Capture mAb

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

Kit Component 56819: Phospho-Zap-70 (Tyr319)/Syk (Tyr352) Rabbit HRP-linked mAb

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

Kit Component 16076: FastScan™ ELISA Capture Antibody Diluent

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

Kit Component 28120: FastScan™ ELISA HRP Antibody Diluent

Skin contact May cause irritation

Kit Component 7002: STOP Solution

Skin contact Corrosive to skin. Prolonged contact with skin is harmful

Kit Component 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: FastScanTM ELISA Cell Extraction Enhancer Solution (50X)

Skin contact May cause sensitization by skin contact

Ingestion

Kit Component 46020: Zap-70 Mouse Capture mAb

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

Kit Component 56819: Phospho-Zap-70 (Tyr319)/Syk (Tyr352) 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

ingestion may cause imation to mucous membranes

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

Risk of serious damage to eyes

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

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 46020: Zap-70 Mouse Capture mAb

Respiratory Sensitization Respiratory Sensitizer
Skin Sensitization May cause skin sensitization

Kit Component 56819: Phospho-Zap-70 (Tyr319)/Syk (Tyr352) Rabbit HRP-linked mAb

Respiratory Sensitization Respiratory Sensitizer
Skin Sensitization May cause skin sensitization

Kit Component16076: 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 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 ComponentSkin Sensitization

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

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)

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

Aspiration Hazard 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	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 4.62 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 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 1.31 mg/L (Cyprinus carpio) 96 h LC50 1.31 mg/L (Cyprinus carpio) 96 h LC50 1.5 - 18.9 mg/L (Pimephales promelas) 96 h LC50 1.96 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	
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 Component 7002: STOP Solution
Bioaccumulation Not likely to bioaccumulate
Bioconcentration factor (BCF) 11 (maleic acid)

Kit Component 9801: ELISA Wash Buffer (20X)

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

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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. Other adverse effects

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

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)
14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for user
EmS No.

8
III
None
F-A, S-B

14.7 Transport in bulk according to Not regulated

Annex II of MARPOL 73/78 and the

IBC Code

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 hazardsNone14.6 Special precautions for userNoneClassification CodeC3Tunnel 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)814.4 Packing groupIII14.5 Environmental hazardsNone14.6 Special precautions for user
Special provisions
ERG codeNoneExcepted Quantity8L

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

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

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.