



**Safety Data Sheet (SDS)** According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

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

**Revision Date:** 2024-06-20

**Version:** 3

## SECTION 1. Identification

### Product identifier

**Product No** 36001  
**Product name** FastScan™ Total CREB ELISA Kit

**Kit Component**

- 76974: CREB Rabbit HRP-linked mAb
- 64904: CREB 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)
- 88143: FastScan™ ELISA Kit #36001 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**

**UN number** UN3265

### Recommended use of the chemical and restrictions on use

**Identified uses** This product is intended for research purposes only.

### Manufacturer, importer, supplier

**Manufacturer address** 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  
**Email address** support@cellsignal.com  
**Emergency telephone number** In case of emergency call CHEMTREC 1-800-424-9300

## SECTION 2. Hazard(s) identification

**Classification**

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

<b>Skin corrosion/irritation</b>	Category 1
<b>Serious eye damage/eye irritation</b>	Category 1
<b>Skin sensitization</b>	Category 1

**GHS Label elements, including precautionary statements****Signal Word**

Danger

**Hazard statement(s)**

May cause an allergic skin reaction.  
Causes severe skin burns and eye damage.

**Precautionary Statement(s)**

Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash face, hands and any exposed skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Contaminated work clothing should not be allowed out of the workplace.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse  
If skin irritation or rash occurs: Get medical advice/attention  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/physician.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Immediately call a POISON CENTER or doctor/physician  
Store locked up.  
Dispose of contents/container to an approved waste disposal plant.

**Supplementary Hazard Information****Hazards not otherwise classified (HNOC)**

Harmful to aquatic life with long lasting effects.

**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-%
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC	55965-84-9	0.0025-0.0125

no. 220-239-6] (3:1)		
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**Kit Component 28120: FastScan™ ELISA HRP Antibody Diluent**

WARNING: May cause an allergic skin reaction.

Chemical name	CAS No	Weight-%
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

**Kit Component 7002: STOP Solution**

DANGER: Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Chemical name	CAS No	Weight-%
maleic acid	110-16-7	3-7

**Kit Component 9801: ELISA Wash Buffer (20X)**

WARNING: May cause an allergic skin reaction.

Chemical name	CAS No	Weight-%
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

**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-%
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether	9002-93-1	1-<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)	55965-84-9	0.0025-0.0125

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-%
sodium dodecyl sulphate	151-21-3	1-3
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)	55965-84-9	0.001-0.005

**Kit Component 88143: FastScan™ ELISA Kit #36001 Positive Control Type 1**



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

#### Specific hazards arising from the chemical

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.

#### Explosion Data

**Sensitivity to Mechanical Impact** None

**Sensitivity to Static Discharge** None

#### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### SECTION 6. Accidental release measures

#### 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.

**Other information** No information available.

#### 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.

#### 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.

### SECTION 7. Handling and storage

#### 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.

#### Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions** Keep container tightly closed in a dry and well-ventilated place. Protect from light.  
**Packaging material** No information available  
**Incompatible products** Acids, Alkalis, Strong acids, Strong bases, Strong oxidizing agents, Strong reducing agents, Metals

### SECTION 8. Exposure controls/personal protection

#### Control parameters

Occupational exposure limit values			
Chemical name	ACGIH TLV	OSHA PEL	NIOSH REL
sodium fluoride	TWA : 2.5 mg/m <sup>3</sup>	TWA : 2.5 mg/m <sup>3</sup>	IDLH : 250 mg/m <sup>3</sup> TWA : 2.5 mg/m <sup>3</sup>
trisodium tetraoxovanadate	-	-	Ceiling: 0.05 mg/m <sup>3</sup>

**Appropriate engineering controls**

Showers, eyewash stations, and ventilation systems.

**Individual protection measures, such as personal protective equipment**

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

<b>Eye/face protection</b>	Safety glasses with side-shields.
<b>Skin and body protection</b>	Wear protective gloves/clothing.
<b>Respiratory protection</b>	In case of inadequate ventilation wear respiratory protection.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice. Provide regular cleaning of equipment, work area and clothing.

## SECTION 9. 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.

**Information on basic physical and chemical properties**

<b>Kit Component</b>	<b>45796: CREB Mouse Capture mAb</b>
Physical state	Solid
Appearance	Lyophilized, Powder
Color	Green
<b>Kit Component</b>	<b>64904: CREB Rabbit HRP-linked mAb</b>
Physical state	Solid
Appearance	Lyophilized, Powder
Color	Red
<b>Kit Component</b>	<b>16076: FastScan™ ELISA Capture Antibody Diluent</b>
Physical state	Liquid
Appearance	Clear
Color	Green
pH	7.4
Remarks	@ 20 °C
<b>Kit Component</b>	<b>28120: FastScan™ ELISA HRP Antibody Diluent</b>
Physical state	Liquid
Color	Brown
pH	6.8-7.2
Remarks	@ 20 °C
Boiling point/range (°C) VALUE	100
Boiling point/range (°F) VALUE	212
Solubility	Soluble in water
<b>Kit Component</b>	<b>7004: TMB Substrate</b>
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** **88143: FastScan™ ELISA Kit #36001 Positive Control Type 1**  
Physical state Solid  
Appearance Lyophilized, Powder  
Color White

## SECTION 10. Stability and reactivity

### Reactivity

No information available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

**Hazardous reactions** None under normal processing.  
**Hazardous polymerization** None under normal processing.

### Conditions to Avoid

Excessive heat, Exposure to air or moisture over prolonged periods

### Incompatible Materials

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

### Hazardous Decomposition Products

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

## SECTION 11. Toxicological information

### Information on likely routes of exposure

#### **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.

#### Inhalation

<b>Kit Component</b>	<b>45796: CREB Mouse Capture mAb</b>
<b>Kit Component</b>	<b>64904: CREB Rabbit HRP-linked mAb</b>
<b>Kit Component</b>	<b>28120: FastScan™ ELISA HRP Antibody Diluent</b>
<b>Kit Component</b>	<b>7002: STOP Solution</b>
<b>Kit Component</b>	<b>9801: ELISA Wash Buffer (20X)</b>
<b>Kit Component</b>	<b>69905: FastScan™ ELISA Cell Extraction Buffer (5X)</b>

#### Eye contact

<b>Kit Component</b> Eye contact	<b>45796: CREB Mouse Capture mAb</b> May cause slight irritation
<b>Kit Component</b> Eye contact	<b>64904: CREB Rabbit HRP-linked mAb</b> May cause slight irritation
<b>Kit Component</b> Eye contact	<b>28120: FastScan™ ELISA HRP Antibody Diluent</b> May cause temporary eye irritation
<b>Kit Component</b> Eye contact	<b>7002: STOP Solution</b> May cause irreversible damage to eyes
<b>Kit Component</b> Eye contact	<b>9801: ELISA Wash Buffer (20X)</b> Expected to be an irritant based on components
<b>Kit Component</b> Eye contact	<b>69905: FastScan™ ELISA Cell Extraction Buffer (5X)</b> May cause irritation
<b>Kit Component</b> Eye contact	<b>25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X)</b> May cause irritation

#### Skin contact

<b>Kit Component</b> Skin contact	<b>45796: CREB Mouse Capture mAb</b> Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
<b>Kit Component</b> Skin contact	<b>64904: CREB Rabbit HRP-linked mAb</b> Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

<b>Kit Component</b> Skin contact	<b>16076: FastScan™ ELISA Capture Antibody Diluent</b> Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
<b>Kit Component</b> Skin contact	<b>28120: FastScan™ ELISA HRP Antibody Diluent</b> May cause irritation
<b>Kit Component</b> Skin contact	<b>7002: STOP Solution</b> Corrosive to skin Prolonged contact with skin is harmful
<b>Kit Component</b> Skin contact	<b>9801: ELISA Wash Buffer (20X)</b> Repeated or prolonged skin contact may cause allergic reactions with susceptible persons Expected to be an irritant based on components
<b>Kit Component</b> Skin contact	<b>25243: FastScan™ ELISA Cell Extraction Enhancer Solution (50X)</b> May cause sensitization by skin contact
<b>Kit Component</b> Skin contact	<b>88143: FastScan™ ELISA Kit #36001 Positive Control Type 1</b> Irritating to skin

Ingestion

<b>Kit Component</b> Ingestion	<b>45796: CREB Mouse Capture mAb</b> Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
<b>Kit Component</b> Ingestion	<b>64904: CREB Rabbit HRP-linked mAb</b> Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
<b>Kit Component</b> Ingestion	<b>28120: FastScan™ ELISA HRP Antibody Diluent</b> Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
<b>Kit Component</b> Ingestion	<b>7002: STOP Solution</b> Ingestion causes burns of the upper digestive and respiratory tract. Harmful if swallowed
<b>Kit Component</b> Ingestion	<b>9801: ELISA Wash Buffer (20X)</b> Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
<b>Kit Component</b> Ingestion	<b>69905: FastScan™ ELISA Cell Extraction Buffer (5X)</b> Ingestion may cause irritation to mucous membranes

Information on toxicological effects**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/m <sup>3</sup> ( Rat ) 1 h
sodium fluoride	= 52 mg/kg (Rat)	= 175 mg/kg ( Rat )	-
trisodium tetraoxovanadate	= 330 mg/kg (rat)	-	-
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether	= 1800 mg/kg (Rat)	-	-
alpha-toluenesulphonyl fluoride	200 (mg/kg) (mice)	-	-
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	= 53 mg/kg (Rat) = 481 mg/kg (Rat) 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

**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**

<b>Kit Component</b>	<b>7002: STOP Solution</b>
Serious eye damage/eye irritation	Risk of serious damage to eyes
Skin corrosion/irritation	Causes burns

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

**Sensitization**

<b>Kit Component</b>	<b>45796: CREB Mouse Capture mAb</b>
Respiratory Sensitization	Respiratory Sensitizer
Skin Sensitization	May cause skin sensitization

<b>Kit Component</b>	<b>64904: CREB Rabbit HRP-linked mAb</b>
Respiratory Sensitization	Respiratory Sensitizer
Skin Sensitization	May cause skin sensitization

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

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

<b>Kit Component</b>	<b>7002: STOP Solution</b>
Skin Sensitization	May cause skin sensitization

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

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

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

<b>Kit Component</b>	<b>88143: FastScan™ ELISA Kit #36001 Positive Control Type 1</b>
Skin Sensitization	May cause skin sensitization

**Mutagenic effects**

<b>Kit Component</b>	<b>7002: STOP Solution</b>
Mutagenic effects	Not mutagenic in AMES Test

**Carcinogenicity**

No component of this product present at levels greater than or equal to 0.1% is identifiable

as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.

**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**

**Ecotoxicity**

**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 4.2 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

**Persistence and degradability**

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

**Bioaccumulation**

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

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

**Mobility**

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

**Other adverse effects**

No information available.

**SECTION 13. Disposal considerations****Waste Disposal Methods**

Dispose of in accordance with all applicable national environmental laws and regulations.

**Disposal considerations**

Do not empty into drains; dispose of this material and its container in a safe way. Dispose of wastes in an approved waste disposal facility.

## SECTION 14. Transport information

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

### DOT

**UN number** UN3265  
**UN proper shipping name** Corrosive liquid, acidic, organic, n.o.s. (maleic acid)  
**Transport hazard class(es)** 8  
**Packing group** III

### IATA

**UN number** UN3265  
**UN proper shipping name** Corrosive liquid, acidic, organic, n.o.s. (maleic acid)  
**Transport hazard class(es)** 8  
**Packing group** III

## SECTION 15. Regulatory information

### North American Inventory Listing

Refer to kit component SDS for full Toxic Substance Control Act (TSCA) reporting requirements.

Chemical name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL
maleic acid	Listed	Not Listed	Listed	Not Listed
sodium dodecyl sulphate	Listed	Not Listed	Listed	Not Listed
sodium fluoride	Listed	Not Listed	Listed	Not Listed
trisodium tetraoxovanadate	Listed	Not Listed	Listed	Not Listed
polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenylether	Listed	Not Listed	Listed	Not Listed
alpha-toluenesulphonyl fluoride	Listed	Not Listed	Listed	Not Listed
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)	Not Listed	Section 5: 1 %	Listed	Not Listed

### SARA 313

Refer to kit component SDS for full SARA Section 313 reporting requirements.

Chemical name	CAS No	SARA 313 - Threshold Values %
trisodium tetraoxovanadate	13721-39-6	1.0
trisodium tetraoxovanadate	13721-39-6	1.0
magnesium nitrate	10377-60-3	1.0
copper dinitrate	3251-23-8	1.0

### SARA 311/312 Hazard Categories

**Acute Health Hazard** No  
**Chronic Health Hazard** No  
**Fire Hazard** No  
**Sudden Release of Pressure Hazard** No  
**Reactive Hazard** No

### Clean Water Act

Refer to kit component SDS for full Clean Water Act (CWA) reporting requirements.

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances	CWA - Bioaccumulative Chemicals of Concern (BCCs)
maleic acid	5000 lb	Not Listed	Not Listed	Listed	Not Listed
sodium fluoride	1000 lb	Not Listed	Not Listed	Listed	Not Listed

**CERCLA**

Refer to kit component SDS for full Comprehensive Environmental Response Compensation and Liability Act (CERCLA) reporting requirements.

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
maleic acid	5000 lb	Not Listed
sodium fluoride	1000 lb	Not Listed

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Refer to kit component SDS for applicable State Right-To-Know (RTK) information.

Chemical name	New Jersey	Massachusetts	Pennsylvania
sucrose	Not Listed	Listed	Not Listed
maleic acid	Listed	Listed	Listed
Sodium Phosphate Dibasic Heptahydrate	Listed	Listed	Listed
sodium fluoride	Listed	Listed	Listed
trisodium tetraoxovanadate	Listed	Not Listed	Not Listed
disodium hydrogenorthophosphate	Listed	Listed	Listed
trisodium tetraoxovanadate	Listed	Not Listed	Not Listed
magnesium nitrate	Listed	Listed	Listed
copper dinitrate	Listed	Listed	Listed

**SECTION 16. Other information**

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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.

End of Safety Data Sheet