

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

Issuing Date: 2017-10-25

Revision Date: 2024-11-07

Version: 3

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

1.1. Product identifier

Product No 6813
Product name BrdU Cell Proliferation Assay Kit
Kit Component
 32375: Fixing/denaturing Solution (1X)
 94079: BrdU Mouse Detection mAb
 34709: Anti-mouse IgG, HRP-Linked Antibody
 13339: Detection Antibody Diluent
 48969: 20X Wash Buffer
 7002: STOP Solution
 75953: BrdU
 7004: TMB Substrate
 13515: HRP Diluent

Hazardous Components

7002: STOP Solution
13515: HRP Diluent
32375: Fixing/denaturing Solution (1X)
34709: Anti-mouse IgG, HRP-Linked Antibody

Contains

Chemical name	Index No.	CAS No
ethanol (70 - 80%)	603-002-00-5	64-17-5
maleic acid (0 - 10%)	607-095-00-3	110-16-7
sodium azide (0 - 10%)	011-004-00-7	26628-22-8
reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (0 - 10%)	613-167-00-5	55965-84-9

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

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

1.3. Details of the supplier of the safety data sheet

Importer	Manufacturer
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	Cell Signaling Technology, Inc. 3 Trask Lane Danvers, MA 01923 United States TEL: +1 978 867 2300 FAX: +1 978 867 2400

Website www.cellsignal.com
E-mail Address info@cellsignal.eu

1.4. Emergency telephone number

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

Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Skin corrosion/irritation	Category 1 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1 - (H317)
Flammable liquids	Category 2 - (H225)

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.
H225 - Highly flammable liquid and vapor.

Precautionary statement(s)

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P233 - Keep container tightly closed.
P240 - Ground/Bond container and receiving equipment.
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
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.
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.
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P235 - Store in a well-ventilated place. Keep cool.

6813 BrdU Cell Proliferation Assay Kit

P405 - Store locked up.

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

2.3. Other hazards

No information available.

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 32375: Fixing/denaturing Solution (1X)

DANGER: Highly flammable liquid and vapor. Causes severe skin burns and eye damage.

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
ethanol	64-17-5	60-70	200-578-6	Flam. Liq. 2 (H225)	no data available

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 34709: Anti-mouse IgG, HRP-Linked Antibody

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-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one	55965-84-9	0.005-0.025	-	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 2 (H310) Acute Tox. 2 (H330) Skin Corr. 1B (H314) Skin Corr. 1C (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH071)	no data available

Kit Component 13515: HRP Diluent

WARNING: May cause an allergic skin reaction.

6813 BrdU Cell Proliferation Assay Kit

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one	55965-84-9	0.005-0.025	-	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 2 (H310) Acute Tox. 2 (H330) Skin Corr. 1B (H314) Skin Corr. 1C (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH071)	no data available

Kit Component 13339: Detection Antibody Diluent

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
sodium azide	26628-22-8	<0.1	247-852-1	Acute Tox. 2 (H300) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH032)	no data available

Kit Component 94079: BrdU Mouse Detection mAb

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
sodium azide	26628-22-8	<0.1	247-852-1	Acute Tox. 2 (H300) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH032)	no data available

Kit Component 75953: BrdU 7004: TMB Substrate 48969: 20X Wash Buffer

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	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
Skin contact	Immediate medical attention is required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Eye contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under

Ingestion the eyelids, for at least 15 minutes.
Do not induce vomiting without medical advice. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

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. Significant esophageal or gastrointestinal tract irritation or burns may occur following ingestion. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

Notes to physician Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CO₂, dry chemical, dry sand, alcohol-resistant foam

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture

Vapors may travel to source of ignition and flash back. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

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 Evacuate personnel to safe areas. Remove all sources of ignition. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Local authorities should be advised if significant spillages cannot be contained. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.
Methods for cleaning up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

6.4. Reference to other sections

See Sections 8 & 13 for additional information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place.

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
ethanol		STEL 3000 ppm STEL 5760 mg/m ³ TWA 1000 ppm TWA 1920 mg/m ³	TWA 1000 ppm TWA 1900 mg/m ³ STEL 5000 ppm STEL 9500 mg/m ³	STEL 1000 ppm STEL 1910 mg/m ³	TWA: 200 ppm TWA: 380 mg/m ³ Skin Ceiling / Peak: 800 ppm Ceiling / Peak: 1520 mg/m ³
sodium azide	TWA 0.1 mg/m ³ STEL 0.3 mg/m ³ S*	STEL 0.3 mg/m ³ TWA 0.1 mg/m ³ Skin	TWA 0.1 mg/m ³ STEL 0.3 mg/m ³ P*	TWA 0.1 mg/m ³ STEL 0.3 mg/m ³ S*	TWA: 0.2 mg/m ³ Ceiling / Peak: 0.4 mg/m ³
reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one					Ceiling / Peak: 0.4 mg/m ³ TWA: 0.2 mg/m ³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
ethanol		STEL 1000 ppm C(A3)	Huid* STEL 1000 ppm STEL 1900 mg/m ³ TWA 137 ppm TWA 260 mg/m ³	TWA 1000 ppm TWA 1900 mg/m ³ STEL 1300 ppm STEL 2500 mg/m ³	TWA 1000 ppm TWA 1900 mg/m ³ STEL 2000 ppm STEL 3800 mg/m ³
sodium azide	TWA 0.1 mg/m ³ STEL 0.3 mg/m ³ Pelle*	TWA 0.1 mg/m ³ STEL 0.3 mg/m ³ Ceiling 0.29 mg/m ³ Ceiling 0.11 ppm C(A4) P*	Huid* STEL 0.3 mg/m ³ TWA 0.1 mg/m ³	TWA 0.1 mg/m ³ STEL 0.3 mg/m ³ iho*	TWA 0.1 mg/m ³ STEL 0.3 mg/m ³ H*
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
ethanol	STEL 2000 ppm STEL 3800 mg/m ³ TWA 1000 ppm TWA 1900 mg/m ³	SS-C** TWA 500 ppm TWA 960 mg/m ³ STEL 1000 ppm STEL 1920 mg/m ³	TWA 1900 mg/m ³	TWA 500 ppm TWA 950 mg/m ³ STEL 625 ppm STEL 1187.5 mg/m ³	STEL 1000 ppm
sodium azide	H* STEL 0.3 mg/m ³ TWA 0.1 mg/m ³	TWA 0.2 mg/m ³ STEL 0.4 mg/m ³	TWA 0.1 mg/m ³ STEL 0.3 mg/m ³	TWA 0.1 mg/m ³ STEL 0.3 mg/m ³	TWA 0.1 mg/m ³ STEL 0.3 mg/m ³ Skin
reaction mass of	TWA 0.05 mg/m ³	SS-C**			

6813 BrdU Cell Proliferation Assay Kit

5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one	Sh/Sah**	S+ TWA 0.2 mg/m ³ STEL 0.4 mg/m ³			
---	----------	---	--	--	--

Biological limit values					
Chemical name	European Union	United Kingdom	France	Spain	Germany
ethanol					Biologische Grenzwerte nach die Verordnung zur arbeitsmedizinischen Vorsorge vom 18. Dezember 2008 sind zu beachten

8.2. Exposure controls

Appropriate engineering controls

Showers, eyewash stations, and ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Face-shield.

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

32375: Fixing/denaturing Solution (1X)

Physical state

Liquid

Appearance

Clear

Color

Colorless

pH

13

Flash point

13 °C / 55 °F (Ethanol)

Kit Component

94079: BrdU Mouse Detection mAb

Physical state

Liquid

Appearance

Clear

Color

Green

pH

7.4 (20 °C)

Kit Component

34709: Anti-mouse IgG, HRP-Linked Antibody

Physical state

Liquid

Appearance

Clear

Color

Red

pH

7.4 (20 °C)

Kit Component

13339: Detection Antibody Diluent

Physical state

Liquid

Appearance

Clear

6813 BrdU Cell Proliferation Assay Kit

Color Green
pH 7.4 (20 °C)

Kit Component 13515: HRP Diluent
Physical state Liquid
Appearance Clear
Color Red
pH 7.4 (20 °C)

Kit Component 48969: 20X Wash Buffer
Physical state Liquid
Appearance Clear
Color Colorless

Kit Component 7002: STOP Solution
Physical state Liquid
Appearance Clear
Color Colorless
pH 2.0 (20 °C)

Kit Component 75953: BrdU
Physical state Liquid
Appearance Clear
Color Colorless
pH 7.0

Kit Component 7004: TMB Substrate
Physical state Liquid
Appearance Clear
Color Light yellow
pH 3.3 - 3.8 (20 °C)

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization Hazardous polymerization does not occur.
Hazardous reactions None under normal processing

10.4. Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Strong acids, Strong oxidizing agents, Strong bases, Metals.

10.6. Hazardous decomposition products

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Product Information No information available

Component Information

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
ethanol	-	LC50 12.0 - 16.0 mL/L (Oncorhynchus mykiss) 96 h LC50 100 mg/L (Pimephales promelas) 96 h LC50 13400 - 15100 mg/L (Pimephales promelas) 96 h	LC50 9268 - 14221 mg/L (Daphnia magna) 48 h EC50 2 mg/L (Daphnia magna) 48 h
maleic acid	-	LC50 5 mg/L (Pimephales promelas) 96 h	EC50 250 - 400 mg/L (Daphnia magna) 48 h
sodium azide	EC50 0.35 mg/L (Pseudokirchneriella subcapitata) 96 h	LC50 0.8 mg/L (Oncorhynchus mykiss) 96 h LC50 0.7 mg/L (Lepomis macrochirus) 96 h LC50 5.46 mg/L (Pimephales promelas) 96 h	LC100 1 mg/L (Orconectes rusticus) 96 h
reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one	EC50 0.11 - 0.16 mg/L (Pseudokirchneriella subcapitata) 72 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 0.12 - 0.3 mg/L (Daphnia magna) 48 h EC50 0.71 - 0.99 mg/L (Daphnia magna) 48 h

12.2. Persistence and degradability

Kit Component **7002: STOP Solution**
Persistence and degradability Product is biodegradable

12.3. Bioaccumulative potential

Kit Component **7002: STOP Solution**
Bioaccumulation Not likely to bioaccumulate

Chemical name	Octanol-Water Partition Coefficient
ethanol	-0.35
maleic acid	-0.34
reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one	>=-0.32 - <=0.7

12.4. Mobility in soil

Kit Component **7002: STOP Solution**
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

This product does not contain any known or suspected endocrine disruptors

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

IMDG/IMO

14.1 UN number	UN3316
14.2 UN proper shipping name	Chemical Kit
14.3 Transport hazard class(es)	9
14.4 Packing group	II
14.5 Environmental hazards	None
14.6 Special precautions for user	
14.7 Maritime transport in bulk according to IMO instruments	Not regulated

ADR/RID

14.1 UN number	UN3316
14.2 UN proper shipping name	Chemical Kit
14.3 Transport hazard class(es)	9
14.4 Packing group	II
14.5 Environmental hazards	None
14.6 Special precautions for user	

IATA

14.1 UN number	UN3316
14.2 UN proper shipping name	Chemical Kit
14.3 Transport hazard class(es)	9
14.4 Packing group	II
14.5 Environmental hazards	None
14.6 Special precautions for user	

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)

This product does not contain Substances of Very High Concern (SVHC).

SEVESO Directive Information

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

International inventories

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

International inventories legend

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

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

SECTION 16: Other information

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

- H314 - Causes severe skin burns and eye damage
- H317 - May cause an allergic skin reaction
- H225 - Highly flammable liquid and vapor

Classification procedure: Expert judgment and weight of evidence determination.
Issuing Date: 2017-10-25
Revision Date: 2024-11-07

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.