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

1.1. Product identifier

Product No: 8572
Product name: Neuronal Marker IF Antibody Sampler Kit

Kit Component:
- 12389: GFAP (D1F4Q) XP® Rabbit mAb
- 5664: CNPase (D83E10) XP® Rabbit mAb
- 5568: β3-Tubulin (D71G9) XP® Rabbit mAb
- 4760: Nestin (Rat-401) Mouse mAb
- 2837: Neurofilament-L (C28E10) Rabbit mAb

Reach registration number: This substance/mixture contains only ingredients which have been registered, or are exempt from registration, according to Regulation (EC) No. 1907/2006.

Contains:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Index No.</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>glycerol (&gt;100%)</td>
<td>Not Listed</td>
<td>56-81-5</td>
</tr>
<tr>
<td>sodium azide (0 - 10%)</td>
<td>011-004-00-7</td>
<td>26628-22-8</td>
</tr>
</tbody>
</table>

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 (Applicable in EU only):
Cell Signaling Technology Europe B.V.
Dellaertweg 9b
2316 WZ Leiden
The Netherlands
TEL: +31 (0)71 7200 200
FAX: +31 (0)71 891 0019
Website: www.cellsignal.com
E-mail Address: info@cellsignal.eu

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

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
2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This substance/mixture does not meet the criteria for classification in accordance with Regulation (EC) No. 1272/2008

2.2. Label elements

2.3. Other hazards

May produce an allergic reaction.

*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

The following kit components contain the ingredients listed in the table below:

<table>
<thead>
<tr>
<th>Kit Component</th>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>EC No</th>
<th>Classification (1272/2008)</th>
<th>REACH Registration Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>12389: GFAP (D1F4Q) XP® Rabbit mAb</td>
<td>glycerol</td>
<td>56-81-5</td>
<td>30-60</td>
<td>200-289-5</td>
<td>Acute Tox. 2 (H300) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EIH032)</td>
<td>no data available</td>
</tr>
<tr>
<td>5664: CNPase (D83E10) XP® Rabbit mAb</td>
<td>sodium azide</td>
<td>26628-22-8</td>
<td>&lt;0.02</td>
<td>247-852-1</td>
<td>no data available</td>
<td></td>
</tr>
<tr>
<td>5568: β3-Tubulin (D71G9) XP® Rabbit mAb</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4760: Nestin (Rat-401) Mouse mAb</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2837: Neurofilament-L (C28E10) Rabbit mAb</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*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**

Use first aid treatment according to the nature of the injury. When symptoms persist or in all cases of doubt seek medical advice.

**Inhalation**

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur.

**Skin contact**

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

**Eye contact**

Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Get medical attention immediately if irritation persists.

**Ingestion**

Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

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

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.
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.

Unsuitable Extinguishing Media  None.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

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. For personal protection see section 8.

For emergency responders  Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined 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.

6.4. Reference to other sections

See Sections 8 & 13 for additional information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Wear personal protective equipment. See section 8. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry 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
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.

<table>
<thead>
<tr>
<th>Kit Component</th>
<th>12389: GFAP (D1F4Q) XP® Rabbit mAb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>pH VALUE</td>
<td>7.5</td>
</tr>
<tr>
<td>Remarks</td>
<td>@ 20 °C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Kit Component</th>
<th>5664: CNPase (D83E10) XP® Rabbit mAb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>pH VALUE</td>
<td>7.5</td>
</tr>
<tr>
<td>Remarks</td>
<td>@ 20 °C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Kit Component</th>
<th>5568: β3-Tubulin (D71G9) XP® Rabbit mAb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>pH VALUE</td>
<td>7.5</td>
</tr>
<tr>
<td>Remarks</td>
<td>@ 20 °C</td>
</tr>
</tbody>
</table>
8572 Neuronal Marker IF Antibody Sampler Kit

<table>
<thead>
<tr>
<th>Component</th>
<th>4760: Nestin (Rat-401) Mouse mAb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>pH VALUE</td>
<td>7.5</td>
</tr>
<tr>
<td>Remarks</td>
<td>@ 20 °C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>2837: Neurofilament-L (C28E10) Rabbit mAb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>pH VALUE</td>
<td>7.5</td>
</tr>
<tr>
<td>Remarks</td>
<td>@ 20 °C</td>
</tr>
</tbody>
</table>

**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
Extremes of temperature and direct sunlight. Over a period of time, sodium azide may react with copper, lead, brass, or solder in plumbing systems to form an accumulation of the HIGHLY EXPLOSIVE compounds of lead azide & copper azide.

10.5. Incompatible materials
Strong oxidizing agents. Strong acids.

10.6. Hazardous decomposition products
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**
Information on likely routes of exposure

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

Eye contact  
Avoid contact with eyes  May cause slight irritation

Skin contact  
Avoid contact with skin

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

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

Symptoms  
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

Skin and Eye Corrosion/Irritation  
No information available

Sensitization  
No information available

Mutagenic effects  
No information available

Carcinogenic effects  
No information available

Reproductive toxicity  
No information available.

Systemic Target Organ Toxicity (STOT)  
No information available

Aspiration Hazard  
No information available.

SECTION 12: Ecological information

12.1. Toxicity

Product Information  
No information available

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>glycerol</td>
<td>-</td>
<td>LC50 51 - 57 mL/L (Oncorhynchus mykiss) 96 h</td>
<td>EC50 500 mg/L (Daphnia magna) 24 h</td>
</tr>
<tr>
<td>sodium azide</td>
<td>EC50 0.35 mg/L</td>
<td>LC50 0.8 mg/L</td>
<td>LC100 1 mg/L (Orconectes rusticus) 96 h</td>
</tr>
<tr>
<td></td>
<td>(Pseudokirchneriella subcapitata) 96 h</td>
<td>(Oncorhynchus mykiss) 96 h LC50 5.46 mg/L (Pimephales promelas) 96 h LC50 0.7 mg/L (Lepomis macrochirus) 96 h</td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

. 
**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**: Not regulated
- **14.2 UN proper shipping name**: Not regulated
- **14.3 Transport hazard class(es)**: Not regulated
- **14.4 Packing group**: Not regulated
- **14.5 Environmental hazards**: None
- **14.6 Special precautions for user**: Not regulated
- **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**: Not regulated

#### IATA

- **14.1 UN number**: Not regulated
- **14.2 UN proper shipping name**: Not regulated
- **14.3 Transport hazard class(es)**: Not regulated
- **14.4 Packing group**: Not regulated
- **14.5 Environmental hazards**: None
- **14.6 Special precautions for user**: None

**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**

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

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Complies</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA 8(b)</td>
<td>-</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>-</td>
</tr>
<tr>
<td>ENCS</td>
<td>-</td>
</tr>
<tr>
<td>IECSC</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>-</td>
</tr>
<tr>
<td>PICCS</td>
<td>-</td>
</tr>
<tr>
<td>AICS</td>
<td>Complies</td>
</tr>
</tbody>
</table>

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

H300 - Fatal if swallowed
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
EUH032 - Contact with acids liberates very toxic gas

Classification procedure: Expert judgment and weight of evidence determination.
Issuing Date: 2019-01-02

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.