

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

Issuing Date: 2019-01-07

Version: 1

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

1.1. Product identifier

| | |
|----------------------|---|
| Product No | 89947 |
| Product name | ER Stress-induced Autophagy Antibody Sampler Kit |
| Kit Component | 4180: Atg12 (D88H11) Rabbit mAb 3495: Beclin-1 (D40C5) Rabbit mAb 3177: BiP (C50B12) Rabbit mAb 5324: eIF2 α (D7D3) XP [®] Rabbit mAb 3708: JNK1 (2C6) Mouse mAb 3398: Phospho-eIF2 α (Ser51) (D9G8) XP [™] Rabbit mAb 4668: Phospho-SAPK/JNK (Thr183/Tyr185) (81E11) Rabbit mAb 7074: Anti-rabbit IgG, HRP-linked Antibody 7076: Anti-mouse IgG, HRP-linked Antibody |

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

| Chemical name | Index No. | CAS No. |
|------------------------|------------------|----------------|
| glycerol (>100%) | Not Listed | 56-81-5 |
| sodium azide (0 - 10%) | 011-004-00-7 | 26628-22-8 |

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) | 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

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:

4180: Atg12 (D88H11) Rabbit mAb
 3495: Beclin-1 (D40C5) Rabbit mAb
 3177: BiP (C50B12) Rabbit mAb
 5324: eIF2 α (D7D3) XP[®] Rabbit mAb
 3708: JNK1 (2C6) Mouse mAb
 3398: Phospho-eIF2 α (Ser51) (D9G8) XP[™] Rabbit mAb
 4668: Phospho-SAPK/JNK (Thr183/Tyr185) (81E11) Rabbit mAb

| Chemical name | CAS No. | Weight-% | EC No | Classification (1272/2008) | REACH Registration Number |
|---------------|------------|----------|-----------|---|---------------------------|
| glycerol | 56-81-5 | 30-60 | 200-289-5 | - | no data available |
| sodium azide | 26628-22-8 | <0.02 | 247-852-1 | Acute Tox. 2 (H300) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH032) | no data available |

Kit Component

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

7074: Anti-rabbit IgG, HRP-linked Antibody
 7076: Anti-mouse IgG, HRP-linked Antibody

| Chemical name | CAS No. | Weight-% | EC No | Classification (1272/2008) | REACH Registration Number |
|---------------|---------|----------|-----------|----------------------------|---------------------------|
| glycerol | 56-81-5 | 30-60 | 200-289-5 | - | no data available |

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

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| | |
|---------------------|---|
| Inhalation | cases of doubt seek medical advice. 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

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clothing before re-use.

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

| Chemical name | European Union | United Kingdom | France | Spain | Germany |
|---------------|---|--|--|---|---|
| glycerol | | STEL 30 mg/m ³ TWA 10 mg/m ³ | TWA 10 mg/m ³ | TWA 10 mg/m ³ | Ceiling / Peak: 400 mg/m ³ TWA: 200 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 |
| Chemical name | Italy | Portugal | Netherlands | Finland | Denmark |
| glycerol | | TWA 10 mg/m ³ | | TWA 20 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 H* |
| Chemical name | Austria | Switzerland | Poland | Norway | Ireland |
| glycerol | | SS-C** TWA 50 mg/m ³ STEL 100 mg/m ³ | TWA 10 mg/m ³ | | TWA 10 mg/m ³ STEL 30 mg/m ³ |
| 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 0.1 mg/m ³ | TWA 0.1 mg/m ³ STEL 0.3 mg/m ³ Skin |

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 | 4180: Atg12 (D88H11) Rabbit mAb |
| Physical state | Liquid |
| Appearance | Clear |

89947 ER Stress-induced Autophagy Antibody Sampler Kit

Color Colorless
pH VALUE 7.5
Remarks @ 20 °C

Kit Component 3495: Beclin-1 (D40C5) Rabbit mAb
Physical state Liquid
Appearance Clear
Color Colorless
pH VALUE 7.5
Remarks @ 20 °C

Kit Component 3177: BiP (C50B12) Rabbit mAb
Physical state Liquid
Appearance Clear
Color Colorless
pH VALUE 7.5
Remarks @ 20 °C

Kit Component 5324: eIF2 α (D7D3) XP[®] Rabbit mAb
Physical state Liquid
Appearance Clear
Color Colorless
pH VALUE 7.5
Remarks @ 20 °C

Kit Component 3708: JNK1 (2C6) Mouse mAb
Physical state Liquid
Appearance Clear
Color Colorless
pH VALUE 7.5
Remarks @ 20 °C

Kit Component 3398: Phospho-eIF2 α (Ser51) (D9G8) XP[™] Rabbit mAb
Physical state Liquid
Appearance Clear
Color Colorless
pH VALUE 7.5
Remarks @ 20 °C

Kit Component 4668: Phospho-SAPK/JNK (Thr183/Tyr185) (81E11) Rabbit mAb
Physical state Liquid
Appearance Clear
Color Colorless
pH VALUE 7.5
Remarks @ 20 °C

Kit Component 7074: Anti-rabbit IgG, HRP-linked Antibody
Physical state Liquid
Appearance Clear
Color Colorless
pH VALUE 7.5
Remarks @ 20 °C

Kit Component 7076: Anti-mouse IgG, HRP-linked Antibody
Physical state Liquid
Appearance Clear
Color Colorless
pH VALUE 7.5
Remarks @ 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 reactions

Hazardous polymerization does not occur.
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 (NO_x).

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 |
|---------------|---------------------|--|-------------------------------------|
| glycerol | = 12600 mg/kg (Rat) | > 10 g/kg (Rabbit) | > 570 mg/m ³ (Rat) 1 h |
| sodium azide | = 27 mg/kg (Rat) | = 20 mg/kg (Rabbit) = 50 mg/kg (Rat) | - |

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

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

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

| Chemical name | Octanol-Water Partition Coefficient |
|---------------|-------------------------------------|
| glycerol | -1.76 |

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. 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 |

Other information disposal.
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 None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not regulated

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

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

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

International inventories legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - 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: 2019-01-07

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.