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

1.1. Product identifier

Product No: 6560
Product name: SignalSilence® p44/42 MAPK (Erk1/2) siRNA
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

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.
Schuttersveld 2
2316 ZA Leiden
The Netherlands
TEL: +31 (0)71 7200 200
FAX: +31 (0)71 891 0098
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

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

0% of the mixture consists of ingredient(s) of unknown acute toxicity.
For the full text of the H-phrases & EUH-phrases mentioned in this Section, see Section 16
6560 SignalSilence® p44/42 MAPK (Erk1/2) siRNA

SECTION 3: Composition/information on ingredients

Chemical nature
Aqueous solution of short interfering ribonucleic acid.

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
Move to fresh air. If not breathing, give artificial respiration.

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 for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Ingestion
Never give anything by mouth to an unconscious person. Clean mouth with water and afterwards drink plenty of water.

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

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
Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO\textsubscript{2}).

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 breathing vapors or mists.

For emergency responders
Use personal protection recommended in Section 8.

6.2. Environmental precautions

Do not let product enter drains.

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
Take up mechanically, placing in appropriate containers for disposal.
6.4. Reference to other sections
See Sections 8 & 13 for additional information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Appearance</td>
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<td>Odor</td>
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<tr>
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<tr>
<td>Vapor density</td>
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</tbody>
</table>
Relative density | No information available
Solubility | No information available
Partition coefficient: n-octanol/water | No information available
Autoignition temperature | No information available
 Decomposition temperature | No information available
Viscosity | No information available
Explosive properties | No information available
Oxidizing properties | No information available

9.2. Other information
Softening point | No information available
Molecular Weight | No information available
Solubility in other solvents | No information available
VOC content | No information available
Density | No information available.

| 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
None known based on information supplied.

10.5. Incompatible materials
No information available.

10.6. Hazardous decomposition products
None under normal use conditions.

| SECTION 11: Toxicological information |

11.1. Information on toxicological effects
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.

Unknown Acute Toxicity | 0 % of the mixture consists of ingredient(s) of unknown acute toxicity.

Information on likely routes of exposure
- **Inhalation** | May be harmful if inhaled. May cause irritation of respiratory tract.
- **Eye contact** | May cause slight irritation.
- **Skin contact** | May cause irritation.
- **Ingestion** | May be harmful if swallowed.
### SECTION 12: Ecological information

**12.1. Toxicity**

No information available.

**Unknown Aquatic Toxicity**

0.007% of the mixture consists of components of unknown hazards to the aquatic environment.

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

Bioaccumulation

No information available.

Bioconcentration factor (BCF)

No information available.

**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 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 None
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 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/NDSL Complies
EINECS/ELINCS -
ENCS -
IECSC Complies
KECL -
PICCS Complies
AICS Complies

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
This substance/mixture does not meet the criteria for classification in accordance with Regulation (EC) No. 1272/2008
Classification procedure: Expert judgment and weight of evidence determination.
Issuing Date: 2017-12-11

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.