

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

Issuing Date: 2017-12-11

Version: 1

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

### 1.1. Product identifier

|                                  |                                                                                                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product No</b>                | 12719                                                                                                                                                     |
| <b>Product name</b>              | SignalSilence® Vitamin D3 Receptor siRNA I                                                                                                                |
| <b>Reach registration number</b> | 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

|                        |                       |
|------------------------|-----------------------|
| <b>Identified uses</b> | For research use only |
|------------------------|-----------------------|

### 1.3. Details of the supplier of the safety data sheet

|                                         |                                 |
|-----------------------------------------|---------------------------------|
| <b>Importer (Applicable in EU only)</b> | <b>Manufacturer</b>             |
| Cell Signaling Technology Europe B.V.   | Cell Signaling Technology, Inc. |
| Schuttersveld 2                         | 3 Trask Lane                    |
| 2316 ZA Leiden                          | Danvers, MA 01923               |
| The Netherlands                         | United States                   |
| TEL: +31 (0)71 7200 200                 | TEL: +1 978 867 2300            |
| FAX: +31 (0)71 891 0098                 | FAX: +1 978 867 2400            |

|                       |                    |
|-----------------------|--------------------|
| <b>Website</b>        | www.cellsignal.com |
| <b>E-mail Address</b> | 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)

|               |     |
|---------------|-----|
| <b>Europe</b> | 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

## 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

|                       |                                                                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b> | Use first aid treatment according to the nature of the injury. When symptoms persist or in all cases of doubt seek medical advice. |
| <b>Inhalation</b>     | Move to fresh air. If not breathing, give artificial respiration.                                                                  |
| <b>Skin contact</b>   | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.                                    |
| <b>Eye contact</b>    | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.               |
| <b>Ingestion</b>      | 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

|                                       |                                                                                       |
|---------------------------------------|---------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>   | Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO <sub>2</sub> ). |
| <b>Unsuitable Extinguishing Media</b> | 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

|                                    |                                                   |
|------------------------------------|---------------------------------------------------|
| <b>For non-emergency personnel</b> | Avoid breathing vapors or mists.                  |
| <b>For emergency responders</b>    | 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

|                                |                                                                       |
|--------------------------------|-----------------------------------------------------------------------|
| <b>Methods for containment</b> | Prevent further leakage or spillage if safe to do so.                 |
| <b>Methods for cleaning up</b> | 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**

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid                   |
| <b>Appearance</b>     | Clear                    |
| <b>Color</b>          | Colorless                |
| <b>Odor</b>           | No information available |
| <b>Odor Threshold</b> | No information available |

| <b>Property</b>                                | <b>Values</b> | <b>Remarks • Method</b>   |
|------------------------------------------------|---------------|---------------------------|
| <b>pH</b>                                      |               | No information available  |
| <b>Melting point/freezing point</b>            |               | No information available  |
| <b>Initial boiling point and boiling range</b> |               | No information available  |
| <b>Flash point</b>                             |               | No information available. |
| <b>Evaporation rate</b>                        |               | No information available  |
| <b>Flammability (solid, gas)</b>               |               | No information available  |
| <b>Upper flammability limit</b>                |               | No information available  |
| <b>Lower flammability limit</b>                |               | No information available  |
| <b>Vapor pressure</b>                          |               | No information available  |
| <b>Vapor density</b>                           |               | No information available  |

|                                        |                           |
|----------------------------------------|---------------------------|
| 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.                                          |

|                                          |                           |
|------------------------------------------|---------------------------|
| <b>Symptoms</b>                          | No information available. |
| <b>Skin corrosion/irritation</b>         | No information available. |
| <b>Serious eye damage/eye irritation</b> | No information available. |
| <b>Sensitization</b>                     | No information available. |
| <b>Mutagenic effects</b>                 | No information available. |
| <b>Carcinogenic effects</b>              | No information available. |
| <b>Reproductive toxicity</b>             | No information available. |
| <b>STOT - single exposure</b>            | No information available. |
| <b>STOT - repeated exposure</b>          | No information available. |
| <b>Aspiration Hazard</b>                 | No information available. |
| <b>Other information</b>                 | No information available. |

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

No information available.

|                                 |                                                                                             |
|---------------------------------|---------------------------------------------------------------------------------------------|
| <b>Unknown Aquatic Toxicity</b> | 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**

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Bioaccumulation</b>               | No information available. |
| <b>Bioconcentration factor (BCF)</b> | 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**

|                                              |                                                                                                     |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations.                                                    |
| <b>Contaminated packaging</b>                | Empty containers should be taken to an approved waste handling site for recycling or disposal.      |
| <b>Other information</b>                     | Waste codes should be assigned by the user based on the application for which the product was used. |

## **SECTION 14: Transport information**

### **IMDG/IMO**

|                                        |               |
|----------------------------------------|---------------|
| <b>14.1 UN number</b>                  | Not regulated |
| <b>14.2 UN proper shipping name</b>    | Not regulated |
| <b>14.3 Transport hazard class(es)</b> | Not regulated |
| <b>14.4 Packing group</b>              | 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 |

**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

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**Classification procedure:** Expert judgment and weight of evidence determination.

**Issuing Date:** 2017-12-11

**Disclaimer**

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