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

Issuing Date:  2017-07-10  Version: 1

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

1.1. Product identifier

Product No  2479
Product name  VEGF Receptor 2 (55B11) 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 (30-60)</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.
Schuttersveld 2  3 Trask Lane
2316 ZA Leiden  2316 ZA Leiden
The Netherlands  Danvers, MA 01923
TEL: +31 (0)71 7200 200  TEL: +1 978 867 2300
FAX: +31 (0)71 891 0098  FAX: +1 978 867 2400

Manufacturer  Cell Signaling Technology, Inc.

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 is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

Supplemental hazard statement(s)

EUH210 - Safety data sheet available on request
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

3.2 Mixtures

<table>
<thead>
<tr>
<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>glycerol</td>
<td>56-81-5</td>
<td>30-60</td>
<td>200-289-5</td>
<td></td>
<td>no data available</td>
</tr>
<tr>
<td>sodium azide</td>
<td>26628-22-8</td>
<td>0.02</td>
<td>247-852-1</td>
<td>Acute Tox. 2 (H300)</td>
<td>no data available</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1 (H400)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 1 (H410)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>(EUH032)</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 skin with soap and water.

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
No information available.

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
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. 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>European Union</th>
<th>United Kingdom</th>
<th>France</th>
<th>Spain</th>
<th>Germany</th>
</tr>
</thead>
<tbody>
<tr>
<td>glycerol</td>
<td>TWA 0.1 mg/m³</td>
<td>STEL 0.3 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
<td>Ceiling / Peak: 0.29 mg/m³</td>
</tr>
<tr>
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<td>STEL 0.3 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
</tr>
<tr>
<td></td>
<td>STEL 0.3 mg/m³</td>
<td>STEL 0.3 mg/m³</td>
<td>STEL 0.3 mg/m³</td>
<td>STEL 0.3 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
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<tr>
<td></td>
<td>Pelle*</td>
<td></td>
<td></td>
<td></td>
<td>Ceiling / Peak: 0.4 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical Name</td>
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<td>Portugal</td>
<td>Netherlands</td>
<td>Finland</td>
<td>Denmark</td>
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<td>TWA 0.1 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
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<tr>
<td>sodium azide</td>
<td>TWA 0.1 mg/m³</td>
<td>STEL 0.3 mg/m³</td>
<td>STEL 0.3 mg/m³</td>
<td>STEL 0.3 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
</tr>
<tr>
<td></td>
<td>STEL 0.3 mg/m³</td>
<td>STEL 0.3 mg/m³</td>
<td>STEL 0.3 mg/m³</td>
<td>STEL 0.3 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Pelle*</td>
<td></td>
<td></td>
<td></td>
<td>H*</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical Name</td>
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<td>Switzerland</td>
<td>Poland</td>
<td>Norway</td>
<td>Ireland</td>
</tr>
<tr>
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<td>SS-C**</td>
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<td>TWA 0.1 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
</tr>
</tbody>
</table>
8.2. Exposure controls

Appropriate engineering controls
Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment
Eye/face protection If splashes are likely to occur, wear: Tightly fitting safety goggles
Skin protection
Hand protection Impervious gloves.
Other Wear suitable protective clothing.
Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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>
<td>Physical state</td>
<td>Liquid</td>
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</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
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<tr>
<td>Color</td>
<td>Colorless</td>
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<tr>
<td>Odor</td>
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<tr>
<td>Odor Threshold</td>
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<tr>
<td>pH</td>
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<td>@ 20 °C</td>
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<td>Melting point/freezing point</td>
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</tr>
<tr>
<td>Initial boiling point and boiling range</td>
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<td></td>
</tr>
<tr>
<td>Flash point</td>
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<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
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</tr>
<tr>
<td>Upper flammability limit</td>
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<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
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<td></td>
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<tr>
<td>Vapor pressure</td>
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<td></td>
</tr>
<tr>
<td>Vapor density</td>
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<tr>
<td>Relative density</td>
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<tr>
<td>Solubility</td>
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<td>Partition coefficient: n-octanol/water</td>
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<td></td>
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<tr>
<td>Autoignition temperature</td>
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<tr>
<td>Decomposition temperature</td>
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<tr>
<td>Viscosity</td>
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<tr>
<td>Explosive properties</td>
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<tr>
<td>Oxidizing properties</td>
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9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Remarks  • Method</th>
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</thead>
<tbody>
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<td>Softening point</td>
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<tr>
<td>Molecular Weight</td>
<td>No information available</td>
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<tr>
<td>Solubility in other solvents</td>
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</tr>
<tr>
<td>VOC content</td>
<td>No information available</td>
</tr>
<tr>
<td>Density</td>
<td>No information available</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
This product is for experimental uses only. The product has not been completely analyzed and all of the hazards may not be known. Please use caution while handling this product.

**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.

**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 corrosion/irritation**: No information available.
**Serious eye damage/eye irritation**: No information available.
**Sensitization**: No information available.
**Mutagenic effects**: No information available.
**Carcinogenic effects**: No information available.
**Reproductive toxicity**: No information available.
**STOT - single exposure**: No information available.
**STOT - repeated exposure**: No information available.
**Aspiration Hazard**: No information available.
**Other information**: No information available.

SECTION 12: Ecological information

12.1. Toxicity
<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 (Pseudokirchneriella subcapitata) 96 h</td>
<td>LC50 0.8 mg/L (Oncorhynchus mykiss) 96 h</td>
<td>LC50 5.46 mg/L (Pimephales promelas) 96 h</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Bioaccumulation</th>
<th>Bioconcentration factor (BCF)</th>
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</thead>
<tbody>
<tr>
<td>No information available.</td>
<td>No information available.</td>
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</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Octanol-Water Partition Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>glycerol</td>
<td>-1.76</td>
</tr>
</tbody>
</table>

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 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

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>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA 8(b)</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Complies</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

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: 2017-07-10

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.