

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

**Issuing Date:** 2015-03-18

**Revision Date:** 2024-12-20

**Version:** 3

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

### 1.1. Product identifier

**Product No** 14011  
**Product name** Lipopolysaccharides (LPS)

### Contains

Chemical name	Index No.	CAS No
Lipopolysaccharides, Escherichia coli (100)	-	93572-42-0

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** For Research Use Only. Not for Use in Diagnostic Procedures.

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

Importer	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](http://www.cellsignal.com)  
**E-mail Address** [info@cellsignal.eu](mailto: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**

<b>Acute oral toxicity</b>	Category 2 - (H300)
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### 2.2. Label elements



**Signal word**  
Danger

**Hazard statement(s)**  
H300 - Fatal if swallowed.

**Precautionary statement(s)**  
 P264 - Wash face, hands and any exposed skin thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P330 - Rinse mouth.  
 P405 - Store locked up.  
 P501 - Dispose of contents/container to an approved waste disposal plant.

### 2.3. Other hazards

No information available.

*For the full text of the H-phrases & EUH-phrases mentioned in this Section, see Section 16*

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
Lipopolysaccharides, Escherichia coli	93572-42-0	100	297-473-0	Acute Tox. 2 (H300)	no data available

*For the full text of the R-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.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids.
<b>Ingestion</b>	Immediate medical attention is required. Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting.
<b>Protection of first-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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

No information available.

**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**

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**            Evacuate personnel to safe areas. Ensure adequate ventilation.  
**For emergency responders**                Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

**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**                      Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

**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. Avoid contact with skin, eyes and clothing. Avoid dust formation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**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

Contains no substances with occupational exposure limit values.

### 8.2. Exposure controls

#### **Appropriate engineering controls**

Showers, eyewash stations, and ventilation systems

#### **Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Tightly fitting safety goggles.
<b>Skin protection</b>	Wear protective gloves and protective clothing.
<b>Hand protection</b>	Impervious gloves.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	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>	Solid - Lyophilized
<b>Color</b>	White to off-white
<b>Odor</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	No information available	No information available
<b>Melting point/freezing point</b>	No information available	No information available
<b>Boiling point or initial boiling point and boiling range</b>	No information available	No information available
<b>Flash point</b>	No information available	No information available.
<b>Evaporation rate</b>	No information available	No information available
<b>Flammability</b>	No information available	No information available
<b>Upper/lower flammability or explosive limits</b>	/	No information available
<b>Vapor pressure</b>	No information available	No information available
<b>Relative vapor density</b>	No information available	No information available
<b>Density and/or relative density</b>	No information available	No information available
<b>Solubility</b>	No information available.	No information available
<b>Partition coefficient: n-octanol/water</b>	No information available	No information available
<b>Autoignition temperature</b>	No information available	No information available
<b>Decomposition temperature</b>	No information available	No information available.
<b>Viscosity</b>	No information available	No information available
<b>Explosive properties</b>	No information available	No information available
<b>Oxidizing properties</b>	No information available	No information available

### 9.2. Other information

<b>Softening point</b>	No information available
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<b>Molecular Weight</b>	No information available
<b>Solubility in other solvents</b>	No information available
<b>VOC content</b>	No information available
<b>Liquid Density</b>	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

<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous reactions</b>	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 hazard classes as defined in Regulation (EC) No 1272/2008

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.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Lipopolysaccharides, Escherichia coli	48.3 mg/kg ( Rat )	-	-

**Unknown Acute Toxicity** No information available.

### Information on likely routes of exposure

<b>Inhalation</b>	There is no data available for this product.
<b>Eye contact</b>	There is no data available for this product.
<b>Skin contact</b>	There is no data available for this product.
<b>Ingestion</b>	May be fatal if swallowed.

**Symptoms** No information available.

**Skin corrosion/irritation** 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>Carcinogenicity</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.

**11.2. Information on other hazards**

No information available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

No information available.

**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. Endocrine disrupting properties**

This product does not contain any known or suspected endocrine disruptors

**12.7. 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.

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## SECTION 14: Transport information

### IMDG/IMO

14.1 UN number	UN3462
14.2 UN proper shipping name	Toxins, extracted from living sources, solid, n.o.s. (Lipopolysaccharides from Escherichia coli)
14.3 Transport hazard class(es)	6.1
14.4 Packing group	II
14.5 Environmental hazards	None
14.6 Special precautions for user	None
14.7 Maritime transport in bulk according to IMO instruments	Not regulated

### ADR/RID

14.1 UN number	UN3462
14.2 UN proper shipping name	Toxins, extracted from living sources, solid, n.o.s. (Lipopolysaccharides from Escherichia coli)
14.3 Transport hazard class(es)	6.1
14.4 Packing group	II
14.5 Environmental hazards	None
14.6 Special precautions for user	None

### IATA

14.1 UN number	UN3462
14.2 UN proper shipping name	Toxins, extracted from living sources, solid, n.o.s. (Lipopolysaccharides from Escherichia coli)
14.3 Transport hazard class(es)	6.1
14.4 Packing group	II
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

#### Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

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	-
EINECS/ELINCS	Complies
ENCS	-
IECSC	-
KECL	-
PICCS	-
AICS	-

#### 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

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

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#### **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.**