

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

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

1.1. Product identifier

Product No 10011

Product name Micrococcal Nuclease

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 nameIndex No.CAS No.glycerol (30-60)Not Listed56-81-5

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. Cell Signaling Technology, Inc.

Dellaertweg 9b 3 Trask Lane
2316 WZ Leiden Danvers, MA 01923
The Netherlands United States

TEL: +31 (0)71 7200 200 TEL: +1 978 867 2300 FAX: +31 (0)71 891 0019 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

#### Supplemental hazard statement(s)

EUH210 - Safety data sheet available on request

#### 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**

#### 3.2 Mixtures

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

cases of doubt seek medical advice.

Move to fresh air. Inhalation

Wash off with warm water and soap. Skin contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Eye contact

Consult a physician.

Clean mouth with water and afterwards drink plenty of water. Ingestion

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

None.

### 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

No information available.

surrounding environment. **Unsuitable Extinguishing Media** 

## 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

Ensure adequate ventilation.

For emergency responders

Use personal protection recommended in Section 8.

#### 6.2. Environmental precautions

Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

### 6.3. Methods and material for containment and cleaning up

Methods for containment Methods for cleaning up Prevent further leakage or spillage if safe to do so.

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

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

Occupational exposure limit values					
Chemical name	European Union	United Kingdom	France	Spain	Germany
glycerol		STEL 30 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	Ceiling / Peak: 400 mg/m³ TWA: 200 mg/m³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
glycerol		TWA 10 mg/m <sup>3</sup>		TWA 20 mg/m <sup>3</sup>	
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
glycerol		SS-C** TWA 50 mg/m³ STEL 100 mg/m³	TWA 10 mg/m <sup>3</sup>		TWA 10 mg/m³ STEL 30 mg/m³

#### 8.2. Exposure controls

### Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Skin protection

Safety glasses with side-shields

Hand protection

Impervious gloves.

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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**

No information available.

No information available

No information available No information available

No information available.

No information available

No information available

No information available

# 9.1. Information on basic physical and chemical properties

Physical stateLiquidAppearanceClearColorColorless

Odor No information available Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 7.5 @ 25 °C

Melting point/freezing point
Initial boiling point and boiling

No information available
No information available

Initial boiling point and boiling range

Flash point

Evaporation rate Flammability (solid, gas) Upper flammability limit Lower flammability limit Vapor pressure Vapor density Relative density Solubility

Partition coefficient: n-octanol/water

Autoignition temperature Decomposition temperature Viscosity

Explosive properties Oxidizing properties

9.2. Other information

Softening pointNo information availableMolecular WeightNo information availableSolubility in other solventsNo information availableVOC contentNo information availableLiquid DensityNo 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 reactions

Hazardous polymerization does not occur.

Can react briskly with oxidizers - danger of explosion.

10.4. Conditions to avoid

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Keep away from open flames, hot surfaces and sources of ignition.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors: Carbon oxides (COx),

## **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.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³(Rat)1 h

**Unknown Acute Toxicity** 

0 % of the mixture consists of ingredient(s) of unknown acute toxicity.

#### Information on likely routes of exposure

InhalationMay cause irritation of respiratory tract.Eye contactMay cause temporary eye irritation.

**Skin contact**Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause

drowsiness and dizziness.

Symptoms None.

**Skin corrosion/irritation**No information available.

Serious eye damage/eye irritation Mild.

SensitizationNo information available.Mutagenic effectsNo information available.Carcinogenic effectsNo information available.Reproductive toxicityNo information available.STOT - single exposureNo information available.STOT - repeated exposureNo information available.

Target Organ Effects Eyes, Respiratory system, Kidney.

Aspiration Hazard No information available.

Other information No information available.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other
		-	aquatic invertebrates
glycerol	-	LC50 51 - 57 mL/L (Oncorhynchus	EC50 500 mg/L (Daphnia magna)
		mykiss) 96 h	24 h

# **Unknown Aquatic Toxicity**

0% 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 Bioconcentration factor (BCF)**No information available.
No information available.

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

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
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Annex II of MARPOL 73/78 and the

IBC Code

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

<u>IATA</u>

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 procautions 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.

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**Disclaimer** 

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