



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 03-Dec-2025

Revision Number 4

EGHS / English

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Code(s)** CAS12205, CAS12206, CAS12207, CAS13509-CAS13516

**Product Name** Cas9 Protein (NLS)

**Chemical name**

**Reach Number** A registration number is not required for this substance.

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

**Recommended Use** For research use only.

**Uses advised against** No information available.

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

**Supplier Name** Horizon Discovery Biosciences Ltd.  
A Revvity Inc. Company

**Supplier Address** 2650 Crescent Drive Suite 100  
Lafayette, CO 80026

**Supplier Phone Number** Tel: 303-604-9499  
Fax: 303-604-9680

**Supplier Email** technical@horizondiscovery.com

For further information, please contact.

### 1.4. Emergency telephone number

For 24/7 multilingual advice for a spill, leak, fire, exposure or accident call CHEMTREC at +44 20 3885 0382 (EMEA) or +1 800 424 9300 (Toll Free) and provide CCN 1015970.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification of substance according to Regulation (EC) No 1272/2008 (CLP)**

Not a hazardous substance or mixture.

**2.2. Label elements****Label elements according to Regulation (EC) No 1272/2008 (CLP)**

Not a hazardous substance or mixture.

**2.3. Other hazards**

No information available

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Chemical name	EC No	CAS-No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Reg. No.
Glycerol	-	200-289-5	50-70%	No data available	No data available
Buffer Solution*	-	-	49-29%	No data available	No data available
Cas9 Protien	-	-	1-5%	No data available	No data available

\* Any concentration shown as a range is to protect confidentiality or is due to process variation.

**Full text of H- and EUH-phrases: see section 16**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS-No	SVHC candidates
Glycerol	200-289-5	-

**SECTION 4: First aid measures****4.1. Description of first aid measures**

<b>Inhalation</b>	Remove to fresh air.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<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>	Clean mouth with water and drink afterwards plenty of water.

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

<b>Symptoms</b>	No information available.
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**4.3. Indication of any immediate medical attention and special treatment needed**

Note to physicians Treat symptomatically.

## Section 5: FIRE FIGHTING 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

#### **Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### 5.3. Advice for firefighters

#### **Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Should not be released into the environment. See Section 12 for additional Ecological Information.

### 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

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly. Store at -20°C.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Material Safety Data Sheet.

## **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1. Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

### 8.2. Exposure controls

#### Personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear suitable protective clothing.

**Environmental exposure controls** No information available.

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

**Physical state** Liquid  
**Colour** Colorless  
**Odour** Mild

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
<b>Melting / freezing point</b>	Data not relevant for safe use	None known
<b>Boiling point / boiling range</b>	Data not relevant for safe use	None known
<b>Flammability</b>	Data not relevant for safe use	None known
<b>Lower and Upper Exposure Limit</b>	Data not relevant for safe use	None known
<b>Flash Point</b>	Data not relevant for safe use	None known
<b>Auto-ignition Temperature</b>	Data not relevant for safe use	None known
<b>Flammability Limit in Air</b>	Data not relevant for safe use	None known
<b>Decomposition Temperature</b>	Data not relevant for safe use	None known
<b>pH</b>	6.4	None known
<b>Kinematic viscosity</b>	Data not relevant for safe use	None known
<b>Solubility</b>	Data not relevant for safe use	None known
<b>Partition coefficient: n-octanol/water</b>	Data not relevant for safe use	None known
<b>Vapour pressure</b>	Data not relevant for safe use	None known
<b>Density / Relative Density</b>	Data not relevant for safe use	None known
<b>Relative vapour density</b>	Data not relevant for safe use	None known
<b>Decomposition temperature</b>	Data not relevant for safe use	None known
<b>Particle characteristics</b>	Data not relevant for safe use	None known

**9.2. Other information**

Softening Point	Data not relevant for safe use
Molecular Weight	Data not relevant for safe use
VOC Content (%)	Data not relevant for safe use
Liquid Density	Data not relevant for safe use
Bulk Density	Data not relevant for safe use
Particle Size	Data not relevant for safe use
Particle Size Distribution	Data not relevant for safe use

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

**10.3. Possibility of hazardous reactions**

Possibility of Hazardous Reactions	None under normal processing.
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**10.4. Conditions to avoid**

None known.

**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****Information on likely routes of exposure****Product Information**

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.

**Ingestion**

Specific test data for the substance or mixture is not available.

**Information on toxicological effects****Symptoms**

No information available.

**Numerical measures of toxicity****Acute Toxicity****Unknown acute toxicity****Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation**

No information available.

**Serious eye damage/eye irritation**

No information available.

**Respiratory or skin sensitization** No information available.**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

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.

**SECTION 12: Ecological information****12.1. Toxicity****Ecotoxicity**

No information available.

**12.2. Persistence and degradability****Persistence and Degradability**

No information available.

**12.3. Bioaccumulative potential**

Bioaccumulation No information available.

#### **12.4. Mobility in soil**

Mobility in soil No information available.

#### **12.5. Results of PBT and vPvB assessment**

PBT and vPvB assessment No information available.

#### **12.6. Other adverse effects**

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. Dispose of waste in accordance with environmental legislation.

Contaminated packaging No information available.

### **SECTION 14: Transport information**

#### **IMDG**

14.1 UN Number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Marine Pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable

#### **RID**

14.1 UN-No.	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

#### **ADR**

14.1 UN-No.	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

#### **IATA**

14.1 UN Number	Not regulated
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<b>14.2 Proper Shipping Name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

#### **Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

#### **Persistent Organic Pollutants**

Not applicable.

#### **Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable.

#### International Inventories

<b>TSCA</b>	Contact supplier for inventory compliance status.
<b>DSL/NDL</b>	Contact supplier for inventory compliance status.
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status.
<b>ENCS</b>	Contact supplier for inventory compliance status.
<b>IECSC</b>	Contact supplier for inventory compliance status.
<b>KECL</b>	Contact supplier for inventory compliance status.
<b>PICCS</b>	Contact supplier for inventory compliance status.
<b>AICS</b>	Contact supplier for inventory compliance status.

#### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European 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

No information available.



**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

SVHC: Substances of Very High Concern for Authorization:

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	-	Skin designation

**Key literature references and sources for data**[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

Revision Date 03-Dec-2025

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006.

**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.

End of Safety Data Sheet

**Data for Regulatory Rules**