

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

Issuing Date: 2014-03-13 **Revision Date: 2024-12-10** Version: 3

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

1.1. Product identifier

Product No 12819

Product name Tunicamycin

Contains

Chemical name Index No. **CAS No** Tunicamycin (90 - 100%) 11089-65-9

Formula C39H60N4O16 **Molecular Weight** 840.9 g/mol

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. 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)

112 **Europe**

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Category 2 - (H300) Acute oral toxicity

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

Formula C₃₉H₆₀N₄O₁₆

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
Tunicamycin	11089-65-9	100	-	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

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 Move to fresh air.

Skin contact Wash skin with soap and water.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

Ingestion Do NOT induce vomiting. Call a physician immediately. Clean mouth with water and

afterwards drink plenty of water.

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

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protective equipment. Keep people away from and upwind of spill/leak.

For non-emergency personnel
Use personal protective equipment. Keep people away
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. Sweep up and shovel into suitable 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

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. 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. Keep out of the reach of children.

7.3. Specific end use(s)

Use as a laboratory reagent.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The product does not contain any hazardous materials with occupational exposure limits established.

8.2. Exposure controls

Appropriate engineering controls

Showers, eyewash stations, and ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Tightly fitting safety goggles.

Skin protection Wear protective gloves and protective clothing.

Hand protection Impervious gloves.

Other Wear suitable protective clothing.

In case of inadequate ventilation wear respiratory protection. Respiratory protection

Environmental Exposure Controls

No information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid - Powder Color Off-white

Odor No information available

Property Values Remarks • Method No information available No information available Hq

Melting point/freezing point 234-235 °C

Boiling point or initial boiling point No information available No information available

and boiling range

Flash point No information available No information available. **Evaporation rate** No information available No information available No information available No information available **Flammability** No information available

Upper/lower flammability or

explosive limits

No information available Vapor pressure No information available Relative vapor density No information available No information available Density and/or relative density No information available No information available Solubility No information available. No information available Partition coefficient: n-octanol/water No information available No information available **Autoignition temperature** No information available No information available

No information available No information available. **Decomposition temperature Viscosity** No information available No information available **Explosive properties** No information available No information available No information available No information available **Oxidizing properties**

9.2. Other information

Softening point No information available Molecular Weight 840.9 g/mol

Solubility 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.

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
Tunicamycin	6.25 mg/kg (Rat)	•	-

Unknown Acute Toxicity No information available.

Information on likely routes of exposure

InhalationThere is no data available for this product.Eye contactThere is no data available for this product.Skin contactThere is no data available for this product.

Ingestion May be fatal if swallowed.

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Skin corrosion/irritation No information available.
Serious eye damage/eye irritation No information available.

12819 / Tunicamycin

SensitizationNo information available.Mutagenic effectsNo information available.CarcinogenicityNo information available.

Reproductive toxicity May damage fertility or the unborn child. Based on available data, the classification criteria

are not met.

Developmental toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration Hazard

May cause birth defects. Based on available data, the classification criteria are not met.
No information available.
No information available.
No information available.

11.2. Information on other hazards

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Unknown Aquatic Toxicity 100% 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 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

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.

application specific. Waste codes should be assigned by the user based on the application

for which the product was used.

SECTION 14: Transport information

This material is subject to regulation as a hazardous material for shipping:

IMDG/IMO

14.1 UN number UN3462

14.2 UN proper shipping name Toxins, extracted from living sources, solid, n.o.s. (Tunicamycin)

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for user
14.7 Maritime transport in bulk
14.8 Not regulated

14.7 Maritime transport in bulk No according to IMO instruments

ADR/RID

14.1 UN number UN3462

14.2 UN proper shipping name Toxins, extracted from living sources, solid, n.o.s. (Tunicamycin)

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
14.6 Special precautions for user
None
None

IATA

14.1 UN number UN3462

14.2 UN proper shipping name Toxins, extracted from living sources, solid, n.o.s. (Tunicamycin)

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
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 ENCS -

IECSC Complies

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.