

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

**Issuing Date: 2018-04-09** 

Version: 1

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

1.1. Product identifier

Product No Product name Reach registration number	9973 Cyclosporin A This substance/mixture contains only ingredients which have been registered, or are exempt from registration, according to Regulation (EC) No. 1907/2006.
Contains_	
Molecular Weight	1202.6239
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 sa	fety data sheet
Importer (Applicable in EU only) Cell Signaling Technology Europe B.V Schuttersveld 2 2316 ZA Leiden The Netherlands TEL: +31 (0)71 7200 200 FAX: +31 (0)71 891 0098	Manufacturer /. Cell Signaling Technology, Inc. 3 Trask Lane Danvers, MA 01923 United States TEL: +1 978 867 2300 FAX: +1 978 867 2400
Website E-mail Address <u>1.4. Emergency telephone number</u> CHEMTREC 24 hours a day, 7 days +1 703 527 3887 (INTERNATIONAL)	

Europe

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# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Regulation (EC) No. 1272/2008

Acute oral toxicity	Category 4 - (H302)
Carcinogenicity	Category 1A - (H350)
Reproductive toxicity	Category 1B - (H360)
Effects on or via lactation	Effects on or via lactation - (H362)

# 2.2. Label elements



Signal word Danger

# Hazard statement(s)

- H302 Harmful if swallowed
- H350 May cause cancer
- H360 May damage fertility or the unborn child
- H362 May cause harm to breast-fed children

### Precautionary statement(s)

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P260 Do not breathe dusts or mists
- P263 Avoid contact during pregnancy/while nursing
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P308 + P313 IF exposed or concerned: Get medical advice/attention
- P330 Rinse mouth
- P405 Store locked up
- P501 Dispose of contents/container to an approved waste disposal plant

### 2.3. Other hazards

May be harmful if inhaled. May be harmful in contact with skin. For the full text of the H-phrases & EUH-phrases mentioned in this Section, see Section 16

# **SECTION 3: Composition/information on ingredients**

Chemical Name	CAS No	Weight %	EC No	Classification (1272/2008)	REACH Registration Number
Cyclo(L-alanyl-D-alanyl-N -methyl-L-leucyl-N-methyl -L-leucyl-N-methyl-L-valyl -((3R,4R,6E)-6,7-didehyd ro-3-hydroxy-N,4-dimethy I-L-2-aminooctanoyl-L-2- aminobutanoyl-N-methylg lycyl-N-methyl-L-leucyl-L- valyl-N-methylleucyl)		100	- -	Acute Tox. 4 (H302) Carc. 1A (H350) Repr. 1B (H360) Lact. (H362)	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.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
	Get medical attention immediately if symptoms occur. If breathing is difficult, give oxygen.

Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.
Ingestion	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

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

Adverse effects from overexposure or overdose may include headache, nausea, central nervous system depression, burning sensation in the mouth, altered taste, hyperesthesia of the hands, burning sensation in the feet, sore gums. flushing of the face, sensation of increased abdominal girth, foot swelling, mild stomach upset, abdominal pain with mild hepatotoxicity, anxiety, diarrhea, vomiting, perspiration, sinus tachycardia, increased blood pressure and headache; vomiting and drowsiness. Principal adverse reactions to cyclosporine therapy are renal dysfunction, tremor, hirsutism, hypertension, hyperlipidemia, gum hyperplasia and nephrotoxicity.

### 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 MediaWater spray. Carbon dioxide (CO2). Dry chemical. Foam.Unsuitable Extinguishing MediaNo information available.

### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic 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 personnelEnsure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and<br/>clothing. Use personal protective equipment. For personal protection see section 8. Wash<br/>thoroughly after handling.For emergency respondersUse personal protection recommended in Section 8.

# 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

### 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	For dust cleanup use protective equipment. Avoid dust formation. Do not dry sweep dust.
	Wet dust with water before sweeping or use a vacuum to collect dust.

### 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. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment. Handle in accordance with good industrial hygiene and safety practice.

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

Recommended storage temperature -20 °C.

### 7.3. Specific end use(s)

Use as a laboratory reagent.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

8.2. Exposure controls

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

Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Safety glasses with side-shields
Skin protection	
Hand protection	Impervious gloves.
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**

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

Physical state Appearance Color Odor Odor Threshold	Solid Powder White to off-white No information available No information available	
Property	Values	Remarks • Method
pH		No information available
Melting point/freezing point	148-151 °C	No information available
Initial boiling point and boiling		No information available
range		
Flash point		No information available.
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Upper flammability limit		No information available
Lower flammability limit		No information available
Vapor pressure		No information available
Vapor density		No information available
Relative density		No information available
Solubility	Practically insoluble	No information available
Partition coefficient: n-octanol/wate	er	No information available
Autoignition temperature		No information available

Decomposition temperature Viscosity Explosive properties Oxidizing properties

9.2. Other information Softening point Molecular Weight Solubility in other solvents VOC content Density

No information available 1202.6239 No information available No information available No information available. No information available. No information available No information available 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

Hazardous polymerization	Hazardous polymerization does not occur.
Hazardous reactions	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

Thermal decomposition can lead to release of irritating and toxic gases and vapors: Nitrogen oxides (NOx).

# **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
Cyclo(L-alanyl-D-alanyl-N-methyl-L-I	= 1480 mg/kg (Rat)	-	-
eucyl-N-methyl-L-leucyl-N-methyl-L-			
valyl-((3R,4R,6E)-6,7-didehydro-3-h			
ydroxy-N,4-dimethyl-L-2-aminoocta			
noyl-L-2-aminobutanoyl-N-methylgly			
cyl-N-methyl-L-leucyl-L-valyl-N-met			
hylleucyl)			

#### Information on likely routes of exposure

Inhalation	May be harmful if inhaled. May cause irritation of respiratory tract.
Eye contact	Contact with eyes may cause irritation.
Skin contact	Prolonged contact may cause redness and irritation. May be harmful in contact with skin.
Ingestion	Harmful if swallowed.

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Symptoms	Adverse effects from overexposure or overdose may include headache, nausea, central nervous system depression, burning sensation in the mouth, altered taste, hyperesthesia of the hands, burning sensation in the feet, sore gums. flushing of the face, sensation of increased abdominal girth, foot swelling, mild stomach upset, abdominal pain with mild hepatotoxicity, anxiety, diarrhea, vomiting, perspiration, sinus tachycardia, increased blood pressure and headache; vomiting and drowsiness. Principal adverse reactions to cyclosporine therapy are renal dysfunction, tremor, hirsutism, hypertension, hyperlipidemia, gum hyperplasia and nephrotoxicity.
Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Sensitization	No information available.
Mutagenic effects	In a single study, Cyclosporin was reported to increase the incidence of chromosomal aberrations in the lymphocytes of kidney transplant patients. It did not induce dominant lethal mutations in mice, chromosomal aberrations in the bone marrow of Chinese hamsters or micronuclei in the bone marrow of Chinese hamsters or mice in vivo. It induced sister chromatid exchange in human peripherallymphocytes in vitro but did not induce gene mutations in Chinese hamster cells. Cyclosporin did not induce mutations in Salmonella typhimurium.
Carcinogenic effects	No information available.
Reproductive toxicity	Nephrotoxicity, a drug side-effect in adults, was identified in experimental animal offspring exposed prenatally to Cyclosporines. Cyclosporines have been reported to cross the human placenta and passes into breast milk.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organ Effects	Kidney, Liver, Central nervous system (CNS), Immune system.
Aspiration Hazard	No information available.
Other information	No information available.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

No information available.

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.
<b>Bioconcentration factor (BCF)</b>	No information available.

# 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
Annex II of MARPOL 73/78 and the	
IBC Code	
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
IATA	
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	
TSCA 8(b)	-
DSL/NDSL	Complies
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

H302 - Harmful if swallowed

H350 - May cause cancer if swallowed

H360 - May damage fertility or the unborn child if inhaled.

H362 - May cause harm to breast-fed children

Classification procedure:	Expert judgment and weight of evidence determination.
Issuing Date:	2018-04-09
<u>Disclaimer</u>	
The information provided in thi	is Safety Data Sheet is correct to the best of our knowledge, i

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