

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

**Issuing Date:** 2014-11-24 **Revision Date:** 2024-11-11 **Version:** 5

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

## 1.1. Product identifier

Product No 2112

Product name Cycloheximide

Contains

 Chemical name
 Index No.
 CAS No

 Cycloheximide (90 - 100%)
 613-140-00-8
 66-81-9

Formula C<sub>15</sub>H<sub>23</sub>NO<sub>4</sub> Molecular Weight 281.35

## 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 7200 200 FAX: +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
Austria	+43 1 3649237
Belgium	+32 2 808 32 37
Denmark	+45 69 91 85 73
Finland	+358 9 42419014
France	+33 9 75 181407
Germany	0800 1817059
Ireland	+353 1 901 4670
Italy	+39 02 4555 7031
Netherlands	+31 85 888 0596
Portugal	+351 308 801 773
Spain	+34-931768545

Sweden	+46 8 525 034 03
Switzerland	+41-435082011
United Kingdom	+44 20 3807 3798

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Acute oral toxicity	Category 2 - (H300)
Germ cell mutagenicity	Category 2 - (H341)
Reproductive toxicity	Category 1B - (H360)
Chronic aquatic toxicity	Category 2 - (H411)

## 2.2. Label elements



# Signal word

Danger

## Hazard statement(s)

H300 - Fatal if swallowed.

H341 - Suspected of causing genetic defects.

H360 - May damage fertility or the unborn child.

H411 - Toxic to aquatic life with long lasting effects.

## Precautionary statement(s)

P203 - Obtain, read and follow all safety instructions before use.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P318 - IF exposed or concerned, get medical advice.

P330 - Rinse mouth.

P391 - Collect spillage.

P405 - Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant.

## 2.3. Other hazards

Avoid contact during pregnancy and while nursing.

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

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

**Formula** C<sub>15</sub>H<sub>23</sub>NO<sub>4</sub> CAS No 66-81-9

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
Cycloheximide	66-81-9	100	200-636-0	Acute Tox. 1 (H300) Muta. 2 (H341) Repr. 1B (H360D) Aquatic Chronic 2 (H411)	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 Show this safety data sheet to the doctor in attendance. When symptoms persist or in all

cases of doubt seek medical advice.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

Skin contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. If skin irritation occurs, get medical advice/attention.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while

rinsing. If eye irritation persists, consult a specialist.

**Ingestion** Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting.

Immediate medical attention is required.

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

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## 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

Water spray

Foam

Carbon dioxide (CO<sub>2</sub>)

Dry powder

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.

**Hazardous Combustion** 

Carbon oxides (COx), Nitrogen oxides (NOx)

**Products** 

## 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. For personal protection see section 8. Avoid contact

with skin, eyes and inhalation of vapors. Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

#### 6.2. Environmental precautions

Should not be released into the environment. Do not let product enter drains. Keep out of waterways.

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

Methods for containment Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or

tarp to minimize spreading.

Methods for cleaning up 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

Wear personal protective equipment. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. Ensure adequate ventilation.

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

Keep container tightly closed in a dry and well-ventilated place. Store locked up.

## 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 Impervious clothing

**Respiratory protection** In case of inadequate ventilation wear respiratory protection.

#### **Environmental Exposure Controls**

Local authorities should be advised if significant spillages cannot be contained Do not allow material to contaminate ground water system Prevent product from entering drains

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

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

Physical state Solid - Crystalline Powder

**Color** Beige

Odor No information available

PropertyValuesRemarks • MethodpHNo information availableNo information availableMelting point/freezing point107-120 °CNo information available

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
Flammability No information available No information available
Upper/lower flammability or / No information available

Upper/lower flammability or / No informate explosive limits

Vapor pressure 4.5 x 10 -13 @ 25 °C

Relative vapor density No information available No information available Density and/or relative density No information available No information available No information available. No information available Solubility Partition coefficient: n-octanol/water No information available No information available No information available No information available **Autoignition temperature Decomposition temperature** No information available No information available. **Viscosity** No information available No information available **Explosive properties** No information available No information available **Oxidizing properties** No information available No information available

9.2. Other information

Softening point No information available

Molecular Weight 281.35

Solubility in other solvents

VOC content

Liquid Density

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

Strong oxidizing agents, Strong bases, Acid chlorides, Acid anhydrides.

#### 10.6. Hazardous decomposition products

Nitrogen oxides (NOx) Carbon oxides (COx)

# **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
Cycloheximide	2 mg/kg (Rat)	-	-

## Information on likely routes of exposure

InhalationThere is no data available for this product.Eye contactContact with eyes may cause irritation.

Skin contactMay cause irritation.IngestionVery toxic if swallowed.

Symptoms Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin corrosion/irritation
Serious eye damage/eye irritation
Sensitization
Causes skin irritation.
Irritating to eyes.
No information available.

Mutagenic effects

No information available.

Animal experiments showed mutagenic and teratogenic effects.

**Carcinogenicity** No information available.

Reproductive toxicity Experiments have shown reproductive toxicity effects on laboratory animals. May cause

adverse reproductive effects - such as birth defect, miscarriages, or infertility.

STOT - single exposure
STOT - repeated exposure
Aspiration Hazard
No information available.
No information available.

## 11.2. Information on other hazards

No information available.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Cycloheximide	-	LC50 1.6 mg/L (Oryzias latipes) 48 h	-

## 12.2. Persistence and degradability

Not readily biodegradable. Biological degradability (28d): 1% @ 100 mg/L

## 12.3. Bioaccumulative potential

**Bioaccumulation** Not likely to bioaccumulate.

Bioconcentration factor (BCF) <0.3 @ 50 ug L<sup>-1</sup>

#### 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

Contaminated packaging

Should not be released into the environment. Dispose of in accordance with the European

Directives on waste and hazardous waste.

Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Other information According to the European Waste Catalogue, Waste Codes are not product specific, but

application specific. 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** UN2811

**14.2 UN proper shipping name** Toxic solid, organic, n.o.s. (Cycloheximide)

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
No

14.5 Environmental hazards None14.6 Special precautions for user None

**14.7 Maritime transport in bulk** Not regulated

according to IMO instruments

ADR/RID

**14.1 UN number** UN2811

**14.2 UN proper shipping name** Toxic solid, organic, n.o.s. (Cycloheximide)

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** UN2811

**14.2 UN proper shipping name** Toxic solid, organic, n.o.s. (Cycloheximide)

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**

H1 - Acute Toxic [5 tonnes (Lower-tier) 20 tonnes (Upper-tier)]

International inventories

TSCA 8(b)
DSL/NDSL

EINECS/ELINCS Complies
ENCS Complies
IECSC Complies
KECL Complies
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

H300 - Fatal if swallowed

## 2112 / Cycloheximide

H341 - Suspected of causing genetic defects if inhaled

H360D - May damage the unborn child

H411 - Toxic to aquatic life with long lasting effects

Classification procedure: Expert judgment and weight of evidence determination.

 Issuing Date:
 2014-11-24

 Revision Date:
 2024-11-11

**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.