

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/25/2023

Reviewed on 05/25/2023

1 Identification

- **Product identifier**
- **Trade name:** Cycloheximide
- **Article number:** 10700
- **CAS Number:**
66-81-9
- **EC number:**
200-636-0
- **Index number:**
613-140-00-8
- **Application of the substance / the mixture:** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SERVA Electrophoresis GmbH
Carl-Benz-Str. 7
D-69115 Heidelberg
Tel.: +49 6221 13840-0
FAX: +49 6221 13840-10
msds.info@serva.de
- **Information department:** Product Safety department Tel.: +49 6221 13840-35
- **Emergency telephone number:**
Medical Emergency Information in case of poisoning:
Poison Information Center Mainz - Phone: +49 (0) 6131 19240
(advisory service in German or English language)



2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS06

Acute Toxicity - Oral 2 H300 Fatal if swallowed.



GHS08

Germ Cell Mutagenicity 2 H341 Suspected of causing genetic defects.
Toxic to Reproduction 1B H360 May damage fertility or the unborn child.

- **Label elements**
- **GHS label elements**
The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:** GHS06, GHS08
- **Signal word:** Danger
- **Hazard statements:**
Fatal if swallowed.
Suspected of causing genetic defects.
May damage fertility or the unborn child.
- **Precautionary statements**
Obtain special instructions before use.
Wash thoroughly after handling.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/25/2023

Reviewed on 05/25/2023

Trade name: Cycloheximide

(Contd. of page 1)

If swallowed: Immediately call a poison center/doctor.

Rinse mouth.

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 4

Fire = 0

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = *3

Fire = 0

Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment:**
- **PBT:** PBT - assessment not available.
- **vPvB:** vPvB - assessment not available.

3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description:**
66-81-9 Cycloheximide
- **Identification number(s):**
- **EC number:** 200-636-0
- **Index number:** 613-140-00-8
- **Description:**

- **Empirical formula:**

66-81-9	Cycloheximide	$C_{15}H_{23}NO_4$
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- **MW:** 281.4

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly. Consult doctor if you feel unwell.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist immediately.
- **After swallowing:**
Wash out the mouth and call a doctor.
Do not induce vomiting!
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

US

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/25/2023

Reviewed on 05/25/2023

Trade name: Cycloheximide

(Contd. of page 2)

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂ extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Nitrogen oxides (NO_x)
Carbon monoxide and carbon dioxide
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
Ensure adequate ventilation
Avoid formation of dust.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up**
Dispose contaminated material as waste according to item 13.
Pick up mechanically.
- **Protective Action Criteria for Chemicals**
- **PAC-1:** 0.18 mg/m³
- **PAC-2:** 2 mg/m³
- **PAC-3:** 12 mg/m³
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling:**
Work only in fume cabinet.
Thorough dedusting.
Open and handle receptacle with care.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Store at +2 to +8 °C
- **Information about storage in one common storage facility:** Do not store together with oxidizing materials.
- **Further information about storage conditions:**
Store under lock and key and with access restricted to technical experts or their assistants only.
- **Specific end use(s):** No further relevant information available.

8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.

(Contd. on page 4)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/25/2023

Reviewed on 05/25/2023

Trade name: Cycloheximide

(Contd. of page 3)

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Additional information about design of technical systems:** No further data; see item 7.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Store protective clothing separately.
 - Avoid contact with the eyes and skin.
 - Wash hands before breaks and at the end of work.
- **Breathing equipment:**
 - Short term filter device:
 - Filter P3
- **Protection of hands:**
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves:**
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material:**
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
 - Natural rubber, NR
 - Nitrile rubber, NBR
 - Fluorocarbon rubber (Viton)
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing

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9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information:**
- **Color:** white to greyish yellow
- **Odor:** Unpleasant
- **Odor threshold:** Not determined.
- **Melting point/Melting range:** 98-112 °C (208.4-233.6 °F)
- **Boiling point/Boiling range:** no information available
- **Flammability (solid, gaseous):** no information available
- **Explosion limits:**
- **Lower:** no information available
- **Upper:** no information available
- **Flash point:** no information available
- **Decomposition temperature:** no information available
- **pH-value:** no information available
- **Viscosity:**
- **Kinematic viscosity:** no information available
- **Dynamic viscosity:** no information available
- **Solubility in / Miscibility with:**
- **Water:** Slightly soluble.
- **Partition coefficient (n-octanol/water):** no information available

(Contd. on page 5)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/25/2023

Reviewed on 05/25/2023

Trade name: Cycloheximide

(Contd. of page 4)

· Vapor pressure:	no information available
· Density:	no information available
· Relative density:	no information available
· Other information	There are no more data available.
· Appearance:	
· Form:	Powder
· Important information on protection of health and environment, and on safety:	
· Danger of explosion:	Product is not explosive. However, formation of explosive dust-/air mixtures are possible.
· Molecular weight	281.4 g/mol

10 Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No further relevant informations available.
- **Conditions to avoid:**
exposure to the light
high temperatures
- **Incompatible materials:**
Avoid contact with:
Bases
Strong oxidizers
Acid chlorides
Acid anhydrides
- **Hazardous decomposition products:** In case of fire: See Section 5

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Fatal if swallowed.

· LD/LC50 values that are relevant for classification:

Oral	LD50	133 mg/kg (Maus)
		2 mg/kg (rat)

- **Germ cell mutagenicity:** Suspected of causing genetic defects.
- **Reproductive toxicity:** May damage fertility or the unborn child.
- **Additional toxicological information:**
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)** Substance is not listed.
- **NTP (National Toxicology Program)** Substance is not listed.
- **OSHA-Ca (Occupational Safety & Health Administration)** Substance is not listed.

12 Ecological information

- **Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.

(Contd. on page 6)

US

Safety Data Sheet

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Reviewed on 05/25/2023

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(Contd. of page 5)

· **Results of PBT and vPvB assessment:**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects:**

· **Additional ecological information:**

· **General notes:**

Toxic for aquatic organisms

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 3 (Assessment by list): extremely hazardous for water

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Disposal must be made according to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:**

Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**

· **DOT, ADR, IMDG, IATA**

UN2811

· **UN proper shipping name**

· **DOT**

· **ADR**

· **IMDG, IATA**

Toxic solids, organic, n.o.s. (Cycloheximide)

2811 TOXIC SOLID, ORGANIC, N.O.S. (Cycloheximide),
ENVIRONMENTALLY HAZARDOUS

TOXIC SOLID, ORGANIC, N.O.S. (Cycloheximide)

· **Transport hazard class(es)**

· **DOT**



· **Class**

6.1 Toxic substances

· **Label**

6.1

· **ADR**



· **Class:**

6.1 Toxic substances

· **Label:**

6.1

(Contd. on page 7)

Safety Data Sheet

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(Contd. of page 6)

· **IMDG, IATA**

- **Class** 6.1 Toxic substances
- **Label** 6.1

- **Packing group**
- **DOT, ADR, IMDG, IATA** I

- **Environmental hazards** Environmentally hazardous substance, solid
- **Special marking (ADR):** Symbol (fish and tree)

- **Special precautions for user** Warning: Toxic substances
- **Hazard identification number (Kemler code):** 66
- **EMS Number:** F-A,S-A
- **Stowage Category** B

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

- **ADR**
- **Excepted quantities (EQ)** Code: E5
Maximum net quantity per inner packaging: 1 g
Maximum net quantity per outer packaging: 300 g

- **IMDG**
- **Limited quantities (LQ)** 0
- **Excepted quantities (EQ)** Code: E5
Maximum net quantity per inner packaging: 1 g
Maximum net quantity per outer packaging: 300 g

- **UN "Model Regulation":** UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (CYCLOHEXIMIDE), 6.1, I, ENVIRONMENTALLY HAZARDOUS

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15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Section 355 (extremely hazardous substances):** Substance is listed.
- **Section 313 (Specific toxic chemical listings):** Substance is not listed.
- **TSCA (Toxic Substances Control Act):** Substance is not listed.
- **Hazardous Air Pollutants** Substance is not listed.
- **Proposition 65** Substance is listed.
- **Chemicals known to cause cancer:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.
- **Chemicals known to cause developmental toxicity:** Substance is listed.
- **Carcinogenicity categories**
- **EPA (Environmental Protection Agency)** Substance is not listed.
- **TLV (Threshold Limit Value)** Substance is not listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.
- **GHS label elements**
The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms** GHS06, GHS08

(Contd. on page 8)

US

Safety Data Sheet

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(Contd. of page 7)

- **Signal word** *Danger*
- **Hazard statements**
 - Fatal if swallowed.*
 - Suspected of causing genetic defects.*
 - May damage fertility or the unborn child.*
- **Precautionary statements**
 - Obtain special instructions before use.*
 - Wash thoroughly after handling.*
 - Avoid release to the environment.*
 - Wear protective gloves/protective clothing/eye protection/face protection.*
 - If swallowed: Immediately call a poison center/doctor.*
 - Rinse mouth.*
- **National regulations:**
- **Information about limitation of use:**
 - Employment restrictions concerning pregnant and lactating women must be observed.*
- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** *Product safety department*
- **Contact:** *+49 6221 13840-35*
- **Date of preparation / last revision** *05/25/2023*
- **Abbreviations and acronyms:**
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*
 - ICAO: International Civil Aviation Organisation*
 - PBT: persistent, bioaccumulative, toxic substance (REACH)*
 - vPvB: very persistent, very bioaccumulative substance (REACH)*
 - REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals*
 - CLP: Regulation on classification, labelling and packaging of substances and mixtures*
 - bw: body weight*
 - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*
 - IMDG: International Maritime Code for Dangerous Goods*
 - DOT: US Department of Transportation*
 - IATA: International Air Transport Association*
 - EINECS: European Inventory of Existing Commercial Chemical Substances*
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)*
 - NFPA: National Fire Protection Association (USA)*
 - HMIS: Hazardous Materials Identification System (USA)*
 - LC50: Lethal concentration, 50 percent*
 - LD50: Lethal dose, 50 percent*
 - PBT: Persistent, Bioaccumulative and Toxic*
 - vPvB: very Persistent and very Bioaccumulative*
 - NIOSH: National Institute for Occupational Safety*
 - OSHA: Occupational Safety & Health*
 - TLV: Threshold Limit Value*
 - PEL: Permissible Exposure Limit*
 - REL: Recommended Exposure Limit*
 - Acute Toxicity - Oral 2: Acute toxicity – Category 2*
 - Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2*
 - Toxic to Reproduction 1B: Reproductive toxicity – Category 1B*

US