

Printing date 07/18/2019

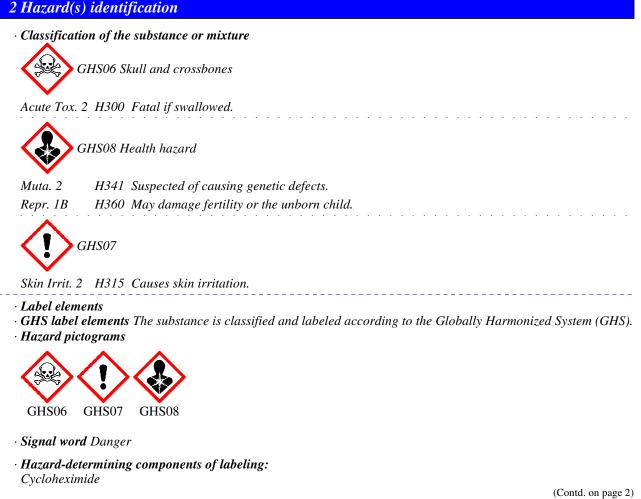
Reviewed on 07/18/2019

1 Identification

- · Product identifier
- · Trade name: Cycloheximide, cell culture reagent
- · Article number: 194527
- · CAS Number:
- 66-81-9
- · EC number:
- 200-636-0
- · Molecular Formula C15 H23 N O4
- · Molecular Weight 281.36
- · Application of the substance / the mixture For Research Use Only

· Details of the supplier of the safety data sheet · Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com

· Information department: Quality Control Department · Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)



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TT TAKE A	(Contd. of page 1)
· Hazard statements	
Fatal if swallowed.	
Causes skin irritation.	
Suspected of causing genetic defects.	
May damage fertility or the unborn child.	
· Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Rinse mouth.	
If on skin: Wash with plenty of water.	
IF exposed or concerned: Get medical advice/attention.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international	onal regulations.
Classification system:	
· NFPA ratings (scale 0 - 4)	
4 0 $Health = 4$ $Fire = 0$ $Reactivity = 0$	
· HMIS-ratings (scale 0 - 4)	
HEALTH *4 $Health = *4$	
FIRE 0 Fire = 0	
REACTIVITY O $Reactivity = 0$	
· Other hazards	
• Results of PBT and vPvB assessment	
• PBT: Not applicable.	
• vPvB : Not applicable.	

- · Identification number(s)
- EC number: 200-636-0

4 First-aid measures

· Description of first aid measures

• General information:

- Consult your Doctor. Show the safety data sheet to the Doctor. Away from the dangerous area. In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation: If breathed in, supply fresh air. If not breathing, give artificial respiration. Consult a Doctor.

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- After skin contact: Wash off with soap and plenty of water. Consult a Doctor.
 After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- *After swallowing:* Do not induce vomiting; immediately call for medical help.
- · Information for doctor
- · 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.

5 *Fire-fighting measures*

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

• Environmental precautions: Do not allow to enter sewers/ surface or ground water.

• Methods and material for containment and cleaning up:

Pick up mechanically, dispose contaminated material as waste according to Section 13.

· 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.
- · Protective Action Criteria for Chemicals



7 Handling and storage

- · Handling:
- · Precautions for safe handling
- 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: 2-8°C

- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Further information about storage conditions:

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• *Specific end use(s) No further relevant information available.*

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see Section 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the skin. Avoid contact with the eyes and skin.
- Breathing equipment: Not required.
- Protection of hands:



Protective gloves

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 \cdot *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.

· Eye protection: Not required.

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Powder	
Color:	White	
Odor:	Indeterminate	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	

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· Flammability (solid, gaseous):	Product is not flammable.	
• Decomposition temperature:	Not determined.	
· Auto igniting:	Not determined.	
· Danger of explosion:	See section 10	
· Explosion limits:		
Lower:	Not Applicable	
Upper:	Not Applicable	
· Vapor pressure:	Not applicable.	
· Density:	Not Applicable	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with	Not Determined	
· Water:	Not determined.	
	Insoluble.	
· Partition coefficient (n-octanol/wa	ter): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
VOC content:	0.00 %	
Solids content:	100.0 %	
• Other information	No further relevant information available.	

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 dangerous reactions known.
- Conditions to avoid No further relevant information available. Avoid contact with acids. Contact liberates a toxic gas.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 5 mg/kg

66-81-9 Cycloheximide

Oral LD50 5 mg/kg (ATE)

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• Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- \cdot on the eye: Irritant and potentially harmful
- Sensitization: No sensitizing effects known.
- 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.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

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

- · Uncleaned packagings:
- · Recommendation: Discard must be made according to official regulations.

· UN-Number	
· DOT, ADR, IMDG, IATA	UN2811
· UN proper shipping name	
DOT	Toxic solids, organic, n.o.s. (Cycloheximide)
·ADR	2811 TOXIC SOLID, ORGANIC, N.O.S. (Cycloheximide
	ENVIRONMENTALLY HAZARDOUS

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IMDG	TOXIC SOLID, ORGANIC, N.O.S. (Cycloheximid	(Contd. of page
	POLLUTANT	<i>ic)</i> , <i>min</i> (ii)
ΙΑΤΑ	TOXIC SOLID, ORGANIC, N.O.S. (Cycloheximide)	
Transport hazard class(es)		
DOT		
Class Label	6.1 Toxic substances 6.1	
ADR, IMDG		
Class	6.1 Toxic substances	
Label	6.1	
IATA		
Class	6.1 Toxic substances	
Label	6.1	
Packing group DOT, ADR, IMDG, IATA	Ι	
Environmental hazards:		
Marine pollutant:	Yes (DOT) Symbol (fish and tree)	
Special marking (ADR):	Symbol (fish and tree)	
Special precautions for user	Warning: Toxic substances	
EMS Number:	F-A,S-A	
Stowage Category	В	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
DOT		
Quantity limitations	On passenger aircraft/rail: 5 kg	
Remarks:	On cargo aircraft only: 50 kg Special marking with the symbol (fish and tree).	
ADR		
Excepted quantities (EQ)	Code: E5	
	Maximum net quantity per inner packaging: 1 g	
	Maximum net quantity per outer packaging: 300 g	

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· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	0 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

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 3	355 (extremel [•]	v hazardous	substances):

Substance is not listed.

 \cdot 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

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

 \cdot Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

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*



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· Signal word Danger

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· Hazard-determining components of labeling: Cycloheximide · Hazard statements Fatal if swallowed. Causes skin irritation. Suspected of causing genetic defects. May damage fertility or the unborn child. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Rinse mouth. If on skin: Wash with plenty of water. IF exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · 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: Quality Control Dept.
- · Date of preparation / last revision 07/18/2019 / -

· Abbreviations and acronvms: ADR: Accord européen sur le transport 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 ACGIH: American Conference of Governmental Industrial Hygienists 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) VOC: Volatile Organic Compounds (USA, EU) 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 Tox. 2: Acute toxicity – Category 2 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Muta. 2: Germ cell mutagenicity – Category 2 Repr. 1B: Reproductive toxicity - Category 1B