



**PhytoTechnology  
Laboratories®**

# SAFETY DATA SHEET

## 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Cycloheximide  
PRODUCT NUMBER: C1989  
COMPANY INFO: *PhytoTechnology Laboratories®*  
PO Box 12205, Shawnee, KS 66282-2205  
Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442  
www.phytotechlab.com

EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only  
1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

RESTRICTIONS ON USE: Products sold by *PhytoTechnology Laboratories®* are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

## 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

- H300 – Acute toxicity, Oral (Category 1)
- H315 – Skin irritation (Category 2)
- H341 – Germ cell mutagenicity (Category 2)
- H360 – Reproductive toxicity (Category 1B)
- H401 – Acute aquatic toxicity (Category 2)
- H411 – Chronic aquatic toxicity (Category 2)

GHS Label elements, including hazard and precautionary statements:



Signal Word: **Danger**

Hazard Statements:

- H300 – Fatal if swallowed.
- H315 – Causes skin irritation.
- H341 – Suspected of causing genetic defects.
- H360 – May damage fertility or the unborn child.
- H411 – Toxic to aquatic life with long lasting effects.

Precautionary Statements:

- P202 – Do not handle until all safety precautions have been read and understood.
- P264 – Wash hands thoroughly after handling.
- P280 – Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 – If SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Naramycin A, Actidione, 3-[2-(3,5-Dimethyl-2-oxocyclohexyl)-2-hydroxyethyl]glutarimide  
CAS No.: 66-81-9  
Formula:  $C_{15}H_{23}NO_4$   
Molecular Weight: 281.35 g/mol  
EC No.: 200-636-0

Ingredient	CAS Number	Percent	Hazardous
Cycloheximide	66-81-9	94%	No exposure limits established by OSHA or ACGIH

#### 4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Route of Entry	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. <b>Get medical attention.</b>
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. <b>Get medical attention.</b>
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. <b>Get medical attention if irritation persists.</b>
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. <b>Get medical attention if irritation persists.</b>

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

#### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.
Special Protective Equipment and Precaution for Firefighters:	In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.
Hazardous Combustion Products:	May emit toxic fumes under fire conditions.
Toxic Gases Produced:	Carbon oxides, nitrogen oxides

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Method of Containment and Cleanup:	Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let products enter drains.

#### 7. HANDLING AND STORAGE

Precaution for Safe Handling:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid incompatible substances. Wash thoroughly after use.
Conditions for Safe Storage:	Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.
Incompatibilities:	Strong oxidizing agents, bases, acid anhydrides, acid chlorides
Recommended Storage Temperature:	2 to 6 °C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Appropriate respirator

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder

pH: Under Development

Solubility: Slightly Soluble in Water.

Melting Point: 110 °C (230 °F)

Vapor Density: No data available

Vapor Pressure: No data available

Odor: No data available

Odor Threshold: No data available

Viscosity: No data available

Relative Density: No data available

Evaporation Rate: No data available

Initial Boiling Point and Boiling Range: No data available

Flammability (solid, gas): No data available

Partition coefficient:  
n-octanol/water): log Pow: 0.55

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Moisture

Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon oxides and nitrogen oxides

## 11. TOXICOLOGICAL INFORMATION

Toxicity: LD<sub>50</sub> (Oral-Rat)(mg/Kg): 2

LD<sub>50</sub> (Oral-Mouse)(mg/Kg): No data available

LD<sub>50</sub> (Dermal-Rabbit)(mg/Kg): No data available

Carcinogenicity: NTP: No  
IARC: No  
Z List: No  
OSHA Reg: No

Respiratory or skin sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.  
Germ cell mutagenicity: Mutagenic effects based on laboratory experiments  
Reproductive Toxicity: May cause congenital malformation in the fetus. Presumed human reproductive toxicant  
Symptoms Associated with Overexposure: Irritation, sneezing, gastrointestinal upset  
Specific Target Organ Toxicity: Single Exposure: No data available  
Repeated Exposure: Respiratory/skin sensitization - May cause allergic reactions in certain sensitive individuals.  
Target Organs: None identified  
Medical Conditions Aggravated By Exposure: None identified  
Routes of Entry: Inhalation, Ingestion  
NIOSH/RTECS NO: MA4375000

***The toxicological properties of this product have not been thoroughly investigated***

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available  
Persistence and Degradability: No data available  
Bioaccumulative Potential: No data available  
Mobility in Soil: No data available  
Other Adverse Effects: Toxic to aquatic life

## 13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations.  
EPA Hazardous Waste Number: No data available

## 14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: Toxic solids, organic, n.o.s. (Cycloheximide) (Cycloheximide)  
Hazard Class: 6.1  
UN: 2811 Packing Group: I  
Poison Inhalation Hazard: No

### International:

IMDG: Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (Cycloheximide) (Cycloheximide)  
Hazard Class: 6.1  
UN: 2811 Packing Group: I EMS-No.: F-A, S-A  
Poison Inhalation Hazard: No

IATA: Proper Shipping Name: Toxic solids, organic, n.o.s. (Cycloheximide) (Cycloheximide)  
 Hazard Class: 6.1  
 UN: 2811 Packing Group: I

**15. REGULATORY INFORMATION**

TSCA: Yes

SARA TITLE III:

Section 302 (EHS) Ingredients: CAS No.: 66-81-9 Cycloheximide  
 Section 313 Ingredients: No  
 Section 304 (EHS/CERCLA) Ingredients: No  
 Section 311/312 Hazard: Acute Health Hazard, Chronic Health Hazard  
 Massachusetts Right to Know Components: CAS No.: 66-81-9 Cycloheximide  
 Pennsylvania Right to Know Components: CAS No.: 66-81-9 Cycloheximide  
 New Jersey Right to Know Components: CAS No.: 66-81-9 Cycloheximide  
 California Prop. 65 Components: CAS No.: 66-81-9 Cycloheximide  
 WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

**16. OTHER INFORMATION**

HMIS Rating:	<b>Health Hazard</b>	<b>Chronic Health Hazard</b>	<b>Flammability</b>	<b>Physical Hazard</b>
	3	*	0	0
NFPA Rating:	<b>Health Hazard</b>	<b>Fire Hazard</b>	<b>Reactivity Hazard</b>	<b>Special Hazard</b>
	3	0	0	

\*Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.

**PhytoTechnology Laboratories® provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. PhytoTechnology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.**

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