



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification	
Product Name:	Cycloheximide
Product #:	C-1189
Synonyms:	Actidion, 3-[2-(3,5-Dimethyl-2-oxocyclohexyl)-2-hydroxyethyl]glutarimide, Actidione Naramycin A, cyclohexamide
Supplier:	A.G. Scientific, Inc. 6450 Lusk Blvd E102 San Diego CA 92121 Tele# + 858-452-9925 Fax# + 858-452-9926
Emergency Tele#:	Chemtrec, Tele# in USA 1-800-424-9300, International 1-703-527-3887

Section 2: Composition / Information on Ingredients					
Component	CAS#	EC #	%	Classification	R Phrases
	66-81-9		Purity%		R28,R38,R40,R41,R62,R63

Section 3: Hazards Identification	
Symbols	<p>6 Toxic</p>
HMIS Classification	<p>FLAMMABILITY</p> <p>HEALTH</p> <p>REACTIVITY</p> <p>OTHER</p>

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NFPA Classification	<p>FLAMMABILITY</p> <p>HEALTH REACTIVITY</p> <p>OTHER</p>
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Section 4: First Aid Measures

General Overview:	Avoid contact, wear suitable protective clothing, gloves and eye/face protection.
Inhalation:	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration, seek medical attention.
Skin:	Wash immediately with water for 15 minutes. Remove contaminated clothing. Wash contaminated clothing before reuse. Seek medical attention if symptoms appear.
Eyes:	In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes. Remove contacts. Assure adequate flushing of the eyes by separating the eyelids with fingers.
Ingestion:	If swallowed, wash out mouth with water provided person is conscious. DO NOT induce vomiting. Seek medical attention if symptoms appear. Loosen tight clothing like collar, tie, belt or waistband.
	<i>See section 11 for more detailed information on health effects & symptoms</i>

SECTION 5: Fire Fighting Measures

Flammability of the product:	May be combustible at high temperatures.
Extinguishing Media:	Dry Chemical Powder for SMALL FIRES and carbon dioxide or water spray, fog or foam for LARGE FIRES. Do not use water jet.
Hazardous thermal (de)composition products:	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ..).
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus (SCBA) and protective clothing to prevent contact with skin and eyes. Be sure to use an approved/certified respirator or equivalent.
Flash Point:	N/A

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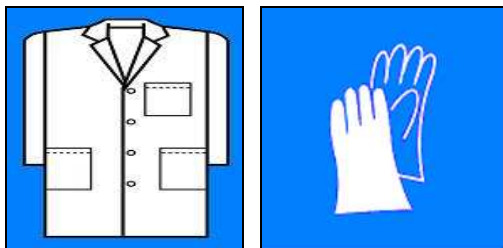
Section 6: Accidental Release Measures

Personal Precautions:	Use Personal Protection Equipment. Splash goggles. Full suit. Boots. Gloves. Avoid dust formation.
Environmental Precautions:	Do not let product enter drains
Methods for Clean-up:	Sweep up & shovel into suitable disposal container. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: Handling & Storage

Storage:	+4°C. Keep container tightly closed and in a well ventilated area. Do not store above +4°C. Storage under inert gas is recommended.
Handling:	Use only in area provided with appropriate exhaust ventilation. Keep away from heat and source of ignition. Empty containers pose a fire risk, evaporate residue under fume hood. Ground all equipment containing material. Do not breathe dust.


SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:	 <p>Wear appropriate government (NIOSH/MSHA) approved respirator. Do not breathe vapor.</p>
Skin and Body:	 <p>Chemical-resistant gloves and lab coat/other protective clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.</p>

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Eyes:	 Safety goggles.
Ventilation/Engineering Measures:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.
Hygiene:	Wash hands after handling compound and before eating, smoking, using lavatory and at the end of the day.
Other:	Contains no substances with occupational exposure limit values.

SECTION 9: Physical and Chemical Properties

Appearance & Odor:	Solid
Color:	White
Formula:	$C_{15}H_{23}NO_4$
Molecular Wt.	281.34 g/mole
Melting Pt.	120°C (248°F)
Boiling Pt.	Decomposes
Density:	N/A
Vapor Pressure:	N/A
Evaporation Rate:	N/A
Vapor Density:	N/A
Water Solubility:	N/A
Flash Point:	N/A
Autoignition Temp:	N/A

SECTION 10: Stability and Reactivity

Stability:	Stable
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions.
Materials to Avoid:	Strong oxidizing agents
Conditions to avoid:	N/A

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SECTION 11: Toxicological Information

RTECS#:	MA4375000
ACUTE Toxicity:	VERY TOXIC. MAY BE TERATOGENIC. DANGEROUS FOR THE ENVIRONMENT. MAY BE MUTAGENIC. LD ₅₀ : 2 mg/kg (rat) Classified reproductive system/toxin/female, development toxin (possible). Causes damage to the nervous system, liver. May cause damage to blood, kidneys, gastrointestinal tract, skin. Very hazardous in case of skin contact (irritant), ingestion, of inhalation.
CHRONIC Toxicity:	Repeat or prolonged exposure is not known to aggravate medical conditions.
Chronic Exposure:	
Carcinogen:	N/A
Mutagen:	N/A
Teratogen:	N/A
Reproductive:	N/A

SECTION 12: Ecological Information

Ecotoxicity:	N/A
Mobility:	N/A
Persistence and degradability:	N/A
Bioaccumulative potential:	N/A
Other adverse effects:	N/A
Corrosivity Characteristic:	N/A
General Notes:	Do not allow undiluted product or large quantities of it to reach groundwater , water course or sewer system. Do not allow materials to be released into the environment without proper government permits.

SECTION 13: Disposal Considerations

Residue Waste or Unused product:	<i>Only professional staff trained in such techniques must undertake waste disposal. Observe all appropriate federal, provincial or state and local regulations.</i>
Contaminated Packaging:	Do not re-use empty containers. Dispose of as unused product.

SECTION 14: Transportation Information

ADR / RID (LAND)	UN-Number: 2811 Class: 6.1 Packing group: I Proper shipping name: Toxic solids, organic, n.o.s. (Cycloheximide)
IMDG/IMO (SEA)	UN-Number: 2811 Class: 6.1 Packing group: I EMS-No: F-A, S-A Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Cycloheximide)

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	Marine pollutant: No
IATA/DGR (AIR)	UN-Number: 2811 Class: 6.1 Packing group: I Proper shipping name: Toxic solid, organic n.o.s. (Cycloheximide)
Special Provisions:	N/A
UN ID#:	UN 2811 Class: 6.1 Packing group: I Proper shipping name: Toxic solid, organic n.o.s. (Cycloheximide)

SECTION 15: Regulatory Information

EU Regulations:	UN 2811 Class: 6.1 Packing group: I Proper shipping name: Toxic solid, organic n.o.s. (Cycloheximide)
SYMBOLS:	  
Risk Phrases:	R28, R38, R40, R41, R62, R63: Very toxic if swallowed, irritating to skin, Limited evidence of a carcinogenic effect, risk of serious damage to eyes, possible risk of impaired fertility, possible risk of harm to the unborn child.
Safety Phrases:	S45, S53, S61: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid exposure - obtain special instructions before use. Avoid release to the environment.
CAS# EC#	CAS# [66-81-9] N/A
US Regulations:	<p>TSCA: No products were found. OSHA: Delayed target organ effects, Highly toxic by ingestion, Irritant, Teratogen TSCA: No products were found. DSL Status: This product contains the following components that are not on the Canadian DSL nor NDSL lists. Cycloheximide CAS-No. 66-81-9 SARA 302: Cycloheximide CAS-No. 66-81-9 Revision Date 1989-12-01 SARA 313: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard Massachusetts: Cycloheximide CAS-No. 66-81-9 Revision Date 1989-12-01 Pennsylvania: Cycloheximide CAS-No. 66-81-9 Revision Date 1989-12-01 New Jersey: Cycloheximide CAS-No. 66-81-9 Revision Date 1989-12-01 California Proposition 65: WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm. Cycloheximide</p>
U.S. Federal Regulations:	<p>OSHA: Delayed target organ effects, Highly toxic by ingestion, Irritant, Teratogen TSCA: No products were found. DSL Status: This product contains the following components that are not on the Canadian DSL nor NDSL lists. Cycloheximide CAS-No. 66-81-9 SARA 302: Cycloheximide CAS-No. 66-81-9 Revision Date 1989-12-01 SARA 313: SARA 313: This material does not contain any chemical components</p>

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HCS Classification:	UN-Number: 2811 Class: 6.1 Packing group: I Proper shipping name: Toxic solid, organic n.o.s. (Cycloheximide)
WHMIS (Canada):	CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

SECTION 16: Other Information

LIABILITY STATEMENT: *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. A.G. Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. A.G. Scientific products are for research purposes only. Not for human use or consumption.*