

SAFETY DATA SHEET

ACTINOMYCIN D

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: 1-905-466-3832
Chemical Name: Actinomycin D
Catalog Number: ACT001

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification:
Acute toxicity, Oral (Category 2)

Pictogram:



Signal word: DANGER

Hazard statement
H300 Fatal if swallowed.

Precautionary statement
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects:
Target Organs: Blood, respiratory system, eyes, skin
Eyes: may cause eye irritation.
Skin: May cause skin irritation. Absorbed through skin.
Inhalation: May cause irritation. May be harmful
Ingestion: harmful if swallowed. May cause irritation of the digestive tract. May cause liver and kidney damage. May cause vomiting, headache dizziness. May cause a drop in blood pressure.
CHRONIC HEALTH HAZARDS: May be carcinogenic.

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Actinomycin D	50-76-0	>98%

Molecular Formula: C₆₂H₈₆N₁₂O₁₆
Molecular Weight: 1255.5

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes.
Skin: Flush area immediately with plenty of soap and water while removing contaminated clothing and shoes..
Inhalation: Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen . GET MEDICAL ATTENTION.
Ingestion: Wash mouth with water. GET MEDICAL ATTENTION .

SECTION 5 FIRE FIGHTING MEASURES

Flammable: No
Flash Point: N/A
Autoignition Temperature: N/A
Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.
Explosion Data: Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.
Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.
Storage Conditions: Room temperature.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:
ACGIH: 5mg/m³ TWA
NIOSH: 5mg/m³ TWA
OSHA: none listed
Use adequate ventilation. AVOID DUST GENERATION.
Wear appropriate protective equipment to prevent eye and skin exposure.
Wear appropriate respirator to prevent lung irritation.
Personal Protection: Lab coat, safety goggles, rubber gloves.
Ventilation: Local exhaust systems. Use fume hood
Respiratory protection: use OSHA/MSHA approved respirator.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Appearance and Odor: Red crystals. No odor
Melting Point: 136-140° C
Boiling Point: N/A
Specific Gravity: N/A
Vapor Density: N/A
Solubility: methanol
pH: N/A

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal temperatures and pressure. Absorbs moisture.
Conditions to avoid: moisture, dust generation.
Incompatibility: Strong oxidizing agents and reducing agents
Hazardous Decomposition Products: carbon monoxide, carbon dioxide, oxides of sulfur.
Hazardous Polymerization: Will not occur

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50 / LC50:
Oral, rat: LD50= 7 mg/kg

Epidemiology: No data available
Teratogenicity: have occurred in animal experiments. In conclusive results.
Reproductive Effects: No data available
Neurotoxicity: No data available
Mutagenicity: N/A
Carcinogenicity: may be carcinogenic

SECTION 12 ECOLOGICAL INFORMATION

Not available

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

Shipping Information: Not regulated

SECTION 15 REGULATORY INFORMATION

US: TSCA: listed
European/International: Harmful if swallowed, irritating to eyes, respiratory system and skin.
Canada: WHMIS: D2B

SECTION 16 ADDITIONAL INFORMATION

Hazard Rating System (estimated)

NFPA	Health	Fire	Reactivity
	2	1	1

Prepared By: M.Kierdelewicz (President)
Date Prepared: Jan 1/2025
Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.
Observe all federal, provincial and state laws concerning health, safety and pollution.

VII PHYSICAL DATA: