



Health	3
Fire	0
Reactivity	0
Personal Protection	

Material Safety Data Sheet

Mitomycin C

1: Chemical Product and Company Identification

Product Name: Mitomycin C

Catalog Code: 41310020-1

CAS#: 50-07-7

RTECS: CN0700000

TSCA: TSCA 8(b) inventory : Mitomycin C

CI#: Not available.

Synonym: Mutamycin; 7-Amino-9-Alpha-Methoxymitosane; Ametycin.

Chemical Name: Mitomycin C

Chemical Formula: C₁₅H₁₈N₄O₅

Contact information:

bioWORLD

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For information, call: 614-792-8680

Fax Number: 614-792-8685

Order Online: www.bio-world.com

E-mail : save@bio-world.com

In case of a chemical emergency, contact local hospital.

For non-emergency assistance, call: 1-800-860-9729

2: Composition and Information on Ingredients

Composition:

Name	CAS#	% by Weight
Mitomycin C	50-07-7	-

Toxicological Data on Ingredients:

LD₅₀ (Oral, Mouse): 23 mg/kg

LD₅₀ (Oral, Rat): 30 mg/kg

3: Hazards Identification

Potential Acute Health Effects: Highly Toxic (USA) Toxic (EU). Limited evidence of a carcinogenic effect. Toxic if swallowed. Possible Carcinogen (US).
Target organ(s): Bone marrow. Liver.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Group 2B carcinogen

MUTAGENIC EFFECTS: Mutagenic effects have occurred in experimental animals.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Adverse reproductive effects have occurred in experimental animals.

4: First Aid Measures

Eye Contact: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Skin Contact: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Serious Inhalation: Not available.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

Serious Ingestion: Not available.

5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Product of Combustion: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sodium oxides, Hydrogen chloride gas.

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:
Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Dry chemical powder.

LARGE FIRE: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

6: Accidental Release Measures

Small Spill: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7: Handling and Storage

Precautions: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

Storage: Keep tightly closed. Store at 2-8°C.

8: Exposure Controls/Personal Protection

Engineering Controls: Safety shower and eye bath. Use only in a chemical fume hood.

Personal Protection: Respiratory: Government approved respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Boots. Dust respirator. Gloves.

Exposure Limits: Not available.

9: Physical and Chemical Properties

Physical State and Appearance: Solid (Powder).

Odor: Not available.

Taste: Not available.

Molecular Weight: 334.33 g/mole

Color: Deep blue.

pH(1% soln/water): Not available.

Boiling Point: Not available.

Melting Point: 360 °C (680 °F)

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapour Pressure: Not available.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Soluble in ethanol. Slightly soluble in water.

10: Stability and Reactivity Data

Stability: Stable.

Instability Temperature: Not available.

Conditions of Instability: Dust generation, excess heat.

Incompatibility with various substances: Strong acids, Strong bases, Strong oxidizing agents.

Corrosivity: Not available.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

11: Toxicological Information

Routes of Entry: Skin contact. Eye contact. Ingestion. Inhalation.

Toxicity to Animals:

LD₅₀ (Oral, Mouse): 23 mg/kg

LD₅₀ (Oral, Rat): 30 mg/kg

Chronic Effects on Humans: Carcinogen: This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Mutagen : Mutagenic effects have occurred in experimental animals.

Reproductive Hazard: Adverse reproductive effects have occurred in experimental animals.

Other Toxic Effects on Humans: Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: Harmful if swallowed.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Product of Biodegradation: Not available.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

13: Disposal Considerations

Waste Disposal: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe

all federal, state, and local environmental regulations.

14: Transport Information

DOT Classification: Not a DOT controlled material.

Identification: Not available.

Special Provisions for Transport: Not available.

15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory : Mitomycin C

Other Regulations: EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xn

Indication of Danger: Harmful.

R: 22 40

Risk Statements: Harmful if swallowed. Limited evidence of a carcinogenic effect.

Other Classifications:

WHMIS(Canada): Not available.

DSCL(EEC): Not available.

HMIS(U.S.A):

Health Hazard: 3

Fire Hazard: 0

Reactivity: 0

Personal Protection:

National Fire Protection Association (U.S.A):

Health: 3

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety goggles.

16: Other Information

References: Not available.

Other Special Considerations: Not available.

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