



MATERIAL SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Colchicine
SYNONYMS: N-[(7S)-5,6,7,9-Tetrahydro-1,2,3,10-tetramethoxy-9-oxobenzo[a]heptalen-7-yl]acetamide
PRODUCT NUMBER: C226
CAS NO: 64-86-8
NIOSH/RTECS NO: GH0700000
COMPANY INFO: *Phyto* Technology Laboratories
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percent	Hazardous
Colchicine	64-86-8	>94 %	No exposure limits established by OSHA or ACGIH

3. PHYSICAL & CHEMICAL PROPERTIES

Product Description: Colchicine
Formula: $C_{22}H_{25}NO_6$
Molecular Weight: 399.44
Storage Temperature: RT
pH (0.010 g/L): Under Development (4.0 – 5.5 suspected range)
Vapor Density: N/A
Melting Point: 142-157 C
Specific Gravity: N/A
Solubility: Soluble in Water
Appearance: Off-white to yellow powder
Odor: Odorless

4. HAZARDS IDENTIFICATION

Label Hazard Warnings: Very toxic if swallowed. Irritating to eyes, respiratory system, and skin.
Label Precautionary Statements: Keep away from food, drink, and animal feeding stuffs. In case of accident or if you feel unwell, seek medical advice immediately. Wear suitable protective clothing, gloves, and eye/face protection.
Laboratory Protective Equipment: Safety glasses, protective gloves, lab coat, and appropriate respirator

HMIS Rating:	Health	Flammability	Reactivity	Personal Protection Equipment
	4	1	0	F
NFPA Rating:	Health	Flammability	Reactivity	Special Hazards
	N/A	N/A	N/A	N/A

Storage and Handling Precautions: Store in a tightly sealed container in a cool, dry place. Protect from light. Do not breathe dust. Avoid contact with material. Wash thoroughly after handling.

5. POTENTIAL HEALTH HAZARDS/ TOXICOLOGICAL INFORMATION

Toxicity:	LD ₅₀ (IV-Rat)(µg/Kg):	1600
	LD ₅₀ (IP-Rat)(µg/Kg):	1400
	LD ₅₀ (Oral-Mouse)(µg/Kg):	5886
Carcinogenicity:	NTP:	No
	IARC:	No
	Z List:	No
	OSHA Reg:	No
Effects of Overexposure:	Irritation, itching, gastrointestinal upset, nausea, vomiting, bleeding, muscle weakness, dermatitis, possible mutagenic and reproductive effects, possible death	
Target Organs:	Respiratory system, kidney, bladder, skin, gastrointestinal system, central nervous system, cardiovascular system, blood	
Medical Conditions Aggravated By Exposure:	Pre-existing kidney, lung, heart, bladder, or digestive disorders	
Routes of Entry:	Ingestion, inhalation, skin and eye contact	

6. EMERGENCY AND FIRST AID

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. Get medical attention.
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. Get medical attention.
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. Get medical attention if irritation persists.
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.

7. FIRE HAZARDS & FIRE FIGHTING MEASURES

Flash Point (Closed Cup):	N/A	
Flammable Limits:	Upper – N/A %	Lower – N/A %
Fire Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.	
Special Fire-Fighting Procedures:	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.	
Unusual Fire & Explosion Hazards:	May emit toxic fumes under fire conditions.	
Toxic Gases Produced:	Carbon monoxide, carbon dioxide, nitrogen oxides	

8. REACTIVITY & CONDITIONS TO AVOID

Stability:	Stable under normal conditions of use
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Sensitive to Light, dust generation
Incompatibles:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide, nitrogen oxides

9. SPECIAL PRECAUTIONS/PROTECTIVE EQUIPMENT

Ventilation:	Ventilation hood recommended
Respiratory Protection:	A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying respirators is limited.
Eye/Skin Protection:	Have eye-washing facilities readily available where eye contact can occur. Wear chemical safety goggles. Use appropriate chemical protective gloves when handling. Showering and changing into street clothes after work is recommended.

10. SPILLS & LEAKS

Spill or Discharge:	Wear suitable protective clothing and a self-contained breathing apparatus if available. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water.
Disposal Procedure:	Dispose in accordance with all applicable federal, state, and local environmental regulations.
EPA Hazardous Waste Number:	N/A

11. TRANSPORTATION DATA

Domestic (D.O.T.):	Proper Shipping Name:	Alkaloids, Solid, N.O.S. (Colchicine)
	Hazard Class:	6.1
	UN/NA:	UN1544
	Labels:	Poison
International (I.M.O.):	Proper Shipping Name:	Alkaloids, Solid, N.O.S. (Colchicine)
	Hazard Class:	6.1
	UN/NA:	UN1544
	Labels:	Poison

12. REGULATORY INFORMATION

U.S. Federal Regulatory Information

TSCA:	Yes
SARA TITLE III:	
Section 302 (EHS) Ingredients:	Yes
Section 313 Ingredients:	No
Section 304 (EHS/CERCLA) Ingredients:	No

SARA TITLE III NOTIFICATION INFORMATION

Acute Health Hazard: Yes
Chronic Health Hazard: Yes
Fire Hazard: No
Sudden Release of Pressure Hazard: No

International Regulatory Information

Risk Phrases: 28 – Very toxic if swallowed
36/37/38 – Irritating to eyes, respiratory system, and skin

Safety Phrases: 13 – Keep away from food, drink, and animal feeding stuffs
45 – In case of accident or if you feel unwell, seek medical advice immediately
36/37/39 – Wear suitable protective clothing, gloves, and eye/face protection

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