*Phyto*Technology Laboratories®

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Colchicine

PRODUCT NUMBER: C226

COMPANY INFO: *Phyto*Technology 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 *Phyto*Technology 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 2)
H318 – Serious eye damage (Category 1)
H330 – Acute toxicity, Inhalation (Category 1)
H340 – Germ cell mutagenicity (Category 1B)

GHS Label elements, including hazard and precautionary statements:

Pictogram: 

Signal Word: DANGER

Hazard Statements:

H300 + H330– Fatal if swallowed or inhaled.
H318 – Causes serious eye damage.
H340 – May cause genetic defects.

Precautionary Statements:

P101 – If medical advice is needed, have product container or label at hand.
P202 – Do not handle until all safety precautions have been read and understood.
P260 – Do not breathe dust
P281 – Use personal protective equipment as required.
P301 + P310 – If SWALLOWED: immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338 + P310 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P308 + P313 – If exposed or concerned: Get medical advice/attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: N-[(7S)-5,6,7,9-Tetrahydro-1,2,3,10-tetramethoxy-9-oxobenzo[a]heptalen-7-yl], Acetamide

CAS No: 64-86-8

Formula: $C_{22}H_{25}NO_6$

Molecular Weight: 399.44

EC No.: 200-598-5

Ingredient	CAS Number	Percent	Hazardous
Colchicine	64-86-8	>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. **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.**

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 dioxide, carbon monoxide and 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 dust, vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

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 product enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid breathing dust. Avoid dust formation 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. Light sensitive product.

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: Room Temperature

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:	Off-white to yellow powder
pH (0.010 g/L):	Under Development (4.0 – 5.5 suspected range)
Solubility:	Soluble in Water
Melting Range:	142-157 °C
Vapor Density:	No data available
Vapor Pressure:	No data available
Specific Gravity:	No data available
Odor:	Odorless
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):	No data available
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:	Sensitive to Light, dust generation
Incompatibles Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide, nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Toxicity:	LD_{50} (IV-Rat)(mg/Kg):	No data available
	LD_{50} (Oral-Mouse)(mg/Kg):	5.886
	LD_{50} (IP-Rat)(mg/Kg):	No data available

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

Germ cell mutagenicity:	In vivo tests showed mutagenic effects
Reproductive Toxicity:	Some evidence of adverse effects on sexual function and fertility, based on animal experiments
Symptoms Associated with Overexposure:	Vomiting, diarrhea

Specific Target Organ Toxicity:	Single Exposure:	No data available
	Repeated Exposure:	No data available

Target Organs:	Stomach
Medical Conditions Aggravated By Exposure:	No data available
Routes of Entry:	No data available
NIOSH/RTECS NO:	GH0700000

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:	No data available

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:	Alkaloids, Solid, N.O.S. (Colchicine)		
	Hazard Class:	6.1	Packing Group:	I
	UN:	1544		
	Marine Pollutant:	No		

International:

IMDG:	Proper Shipping Name:	Alkaloids, Solid, N.O.S. (Colchicine)		
	Hazard Class:	6.1	Packing Group:	I
	UN:	1544	EMS No.:	F-A, S-A
	Marine Pollutant:	No		
IATA:	Proper Shipping Name:	Alkaloids, Solid, N.O.S. (Colchicine)		
	Hazard Class:	6.1	Packing Group:	I
	UN/NA:	UN1544		

15. REGULATORY INFORMATION

TSCA:	Yes	
SARA TITLE III:		
Section 302 (EHS) Ingredients:	Yes	
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	Colchicine	CAS-No: 64-86-8
Pennsylvania Right to Know Components:	Colchicine	CAS-No: 64-86-8
New Jersey Right to Know Components:	Colchicine	CAS-No: 64-86-8
California Prop. 65 Components	CAS-No: 64-86-8 Colchicine WARNING: contain chemicals known to cause birth defects or other reproductive harm.	

16. OTHER INFORMATION

HMIS Rating:	**Health Hazard**	**Chronic Health Hazard**	**Flammability**	**Physical Hazard**
	4	*	0	0
NFPA Rating:	**Health Hazard**	**Fire Hazard**	**Reactivity Hazard**	**Special Hazard**
	4	0	0	

*Chronic Health: long-term health effects may occur due to repeated overexposure.

16. OTHER INFORMATION

***Phyto*Technology 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. *Phyto*Technology 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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