



Cayman Chemical Company
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108

1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Code: 9000760

Product Name: Colchicine

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

Intended Use: For research use only, not for human or veterinary use.

Manufacturer Information

Company Name: Cayman Chemical Company

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

Alternate Emergency Contact: CHEMTREC Outside USA and Canada: +1 (703)527-3887

Information: Cayman Chemical Company +1 (734)971-3335

Web site address: www.caymanchem.com

2. Hazards Identification

GHS Classification	Placard	Key word	GHS Hazard
Acute Toxicity: Oral, Category 2	Skull and crossbones	Danger	Fatal if swallowed
Acute Toxicity: Inhalation, Category 2	Skull and crossbones	Danger	Fatal if inhaled
Germ Cell Mutagenicity, Category 1B	Health hazard	Danger	May cause genetic defects

GHS Hazard Phrases:
H300: Fatal if swallowed.
H330: Fatal if inhaled.
H340: May cause genetic defects.

GHS Precaution Phrases:
P264: Wash hands thoroughly after handling.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P284: Wear respiratory protection. as specified by the manufacturer/supplier or the competent authority.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P281: Use personal protective equipment as required.

GHS Response Phrases:
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330: Rinse mouth.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310: Immediately call a POISON CENTER or doctor/physician.
P308+313: IF exposed or concerned: Get medical attention/advice.

GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information.

Route(s) of Entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection

Potential Health Effects (Acute and Chronic): California Prop. 65 developmental toxin.
Causes eye burns.
Material may be irritating to the mucous membranes and upper respiratory tract.
May be harmful by skin absorption.
May cause congenital malformation in the fetus.
May cause skin or respiratory system irritation.
Very toxic and may be fatal by inhalation or if swallowed.



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Target Organs: Bone marrow, Cardiovascular system, Reproductive system, Kidneys, Nervous system, Liver.

LD 50 / LC 50: Please refer to Section 11.

Signs and Symptoms Of Exposure: Ingestion may cause: nausea, vomiting, gastrointestinal disturbances, and diarrhea.
To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Medical Conditions Generally Aggravated By Exposure: No data available.

3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration	EC#	Risk Phrases	RTECS #
1. Colchicine	64-86-8	100.0 %	200-598-5	R26/28-46	GH0700000

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

5. Fire Fighting Measures

Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

Flammable Properties and Hazards: No data available.

Hazardous Combustion Products: No data available.

Flash Pt: No data.

Autoignition Pt: No data available.

Explosive Limits: LEL: No data. UEL: No data.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Avoid raising and breathing dust, and provide adequate ventilation.
As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

Environmental Precautions: Take steps to avoid release into the environment, if safe to do so.

Steps To Be Taken In Case Material Is Released Or Spilled: Contain spill and collect, as appropriate.
Transfer to a chemical waste container for disposal in accordance with local regulations.

7. Handling and Storage

Precautions To Be Taken in Handling: Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid prolonged or repeated exposure.

Precautions To Be Taken in Storing: Keep container tightly closed.
Store in accordance with information listed on the product insert.



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Hazard Label Information: Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling.

8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. Colchicine	64-86-8	No data.	No data.	No data.
Hazardous Components (Chemical Name)	CAS #	Britain EH40	France VL	Europe
1. Colchicine	64-86-8	No data.	No data.	No data.

Protective Equipment Summary - Hazard Label Information: Compatible chemical-resistant gloves Eye wash station in work area Lab coat Safety glasses Safety shower in work area Vent Hood

Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.
Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
Wash thoroughly after handling.

9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical States: ☐ Gas ☐ Liquid ☒ Solid

Appearance and Odor: A crystalline solid

Boiling Point: No data.

Melting Point: No data.

Autoignition Pt: No data.

Flash Pt: No data.

Specific Gravity (Water = 1): No data.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Evaporation Rate: No data.

Solubility in Water: No data.

Other Information

Percent Volatile: No data.

Formula: C₂₂H₂₅NO₆

Molecular Weight: 399.40

10. Stability and Reactivity

Stability: Unstable ☐ Stable ☒

Stability Note(s): Stable if stored in accordance with information listed on the product insert.

Conditions To Avoid: No data available.

Polymerization: Will occur ☐ Will not occur ☒

Incompatibility - Materials To Avoid: strong oxidizing agents



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Hazardous Decomposition Or Byproducts: carbon dioxide
carbon monoxide
nitrogen oxides

11. Toxicological Information

Toxicological Information: The toxicological effects of this product have not been thoroughly studied.

Colchicine - Toxicity Data: Oral LD50 (mouse): 5.886 mg/kg; Oral LD50 (rat): 26 mg/kg;
Colchicine - Irritation Data: Eyes (rabbit): 1% (3D) severe;

Chronic Toxicological Effects: Colchicine - Investigated as a mutagen and reproductive effector.
Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.
See actual entry in RTECS for complete information.
Colchicine RTECS Number: GH0700000

Carcinogenicity/Other Information: California Prop. 65 developmental toxin.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Colchicine	64-86-8	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

General Ecological Information: Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.

13. Disposal Considerations

Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

14. Transport Information

Globally Harmonized System of Classification and Labelling

Acute Toxicity: Oral, Category 2 - Danger! Fatal if swallowed
Acute Toxicity: Inhalation, Category 2 - Danger! Fatal if inhaled
Germ Cell Mutagenicity, Category 1B - Danger! May cause genetic defects

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name Alkaloids, solid, n.o.s. (Colchicine)
DOT Hazard Class: 6.1
DOT Hazard Label: POISON
UN/NA Number: 1544
Packing Group: I

LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name Alkaloids, solid, n.o.s. (Colchicine)
UN Number: 1544
Hazard Class: 6.1 - POISON
Packing Group: I

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Alkaloids, solid, n.o.s. (Colchicine)
UN Number: 1544
Hazard Class: 6.1 - POISON
Packing Group: I
IATA Classification: 6.1

Additional Transport Information: Transport in accordance with local, state, and federal regulations.



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15. Regulatory Information

European Community Hazard Symbol codes T+: Very Toxic; Mutagenic Hazard: 2**European Community Risk and Safety Phrases**

- R26/28 - Very toxic by inhalation and if swallowed.
R46 - May cause heritable genetic damage.
S22 - Do not breathe dust.
S24/25 - Avoid contact with skin and eyes.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.)
S53 - Avoid exposure - obtain special instructions before use.

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Colchicine	64-86-8	Yes 10 LB *	Yes NA	No	No

Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. Colchicine	64-86-8	No	No	Inventory	Yes

Regulatory Information Statement: This SDS was prepared in accordance with 29 CFR 1910.1200, Regulation (EC) No.1272/2008, and European Directive 67/548/EEC as amended.

16. Other Information

Company Policy or Disclaimer

For research use only, not for human or veterinary use.

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required