

Safety Data Sheet

Section 1: Chemical Identification

Chemical Name: N-[(7S)-1,2,3,10-tetramethoxy-9-oxo-6,7-dihydro-5H-benzo[a]heptalen-7-yl]acetamide

Alternative Name: Colchicine, Colchicin, Colchicina, Condylon, Colsaloid, Colchicinum, Colchineos, Colchisol, Colcin

Catalog Number: C-910-100; C-910-500; C-910-1

Recommended use: Colchicine is a mitotic poison which has been used in research as a chemotherapeutic agent for cancer. This product is not for use in humans. It is intended for research purposes only.

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Section 2: Hazardous Information

GHS Classification

Acute toxicity, Oral (Category 2)
 Acute toxicity, Inhalation (Category 1)
 Serious eye damage (Category 1)

GHS Label Elements, including Precautionary statements



DANGER!

Hazard Statements:

H300+H330: Fatal if swallowed or inhaled
H316: Causes serious eye damage

Precautionary Statements:

P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray

P264: Wash skin thoroughly after handling

P280: Wear protective gloves/ eye protection/ face protection

P284: Wear respiratory protection

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do – continue rinsing

P310: Immediately call a POISON CENTER or doctor/ physician

OSHA Hazards

Target Organ Effect, Highly toxic by Inhalation, Highly toxic by Ingestion, Irritant, Teratogen

Potential Health Effects

Eye: Causes eye irritation.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Ingestion: May be fatal if swallowed.

Inhalation: May be fatal if inhaled. Causes respiratory tract irritation.

HMIS Classification

Health hazard: 4

Chronic health hazard *

Flammability: 0

Physical hazards: 0

NFPA Rating

Health Hazard: 4

Fire: 0

Reactivity Hazard: 0

Section 3: Composition/Information on Ingredients

Identity: N-[(7S)-1,2,3,10-tetramethoxy-9-oxo-6,7-dihydro-5H-benzo[a]heptalen-7-yl]acetamide

Synonyms: Colchicine, Colchicin, Colchicina, Condylon, Colsaloid, Colchicinum, Colchineos, Colchisol, Colcin

CAS number: 64-86-8

Molecular Formula: C₂₂H₂₅NO₆

Molecular Weight: 399.44 g/mol

Section 4: First Aid Measures

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Eye: Immediately rinse out with water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Consult a physician.

Ingestion: Wash out mouth with water. Drink plenty of water. Consult a physician.

Section 5: Fire Fighting Measures

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical: During a fire, highly toxic gases may be generated by thermal decomposition or combustion – Carbon oxides, Nitrogen oxides.

Special protective actions for fire-fighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2-8 °C.

Keep in a dry place. Product is light sensitive.

Section 8: Exposure Controls / Personal Protection

Control parameters: Contains no substances with occupational exposure limit

values.

Appropriate engineering controls: Use only in a chemical fume hood. Safety shower and eye bath.

Personal Protective Equipment (PPE)

Eye/Face Protection: Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards, such as NIOSH (US) or CEN (EU).

Other Protective Clothing or Equipment: Wear appropriate protective clothing to prevent exposure.

Section 9: Physical and Chemical Properties

Appearance:	Yellow or off-white powder
Odour:	Not available
Odour Threshold:	Not available
pH:	Not available
Melting Point:	150-160 °C
Freezing Point:	Not available
Boiling Point/Range:	726 °C
Flash Point:	392.9 °C
Evaporation Rate:	Not available
Flammability:	Not available
Vapour Pressure:	Not available
Vapour Density:	Not available
Relative Density:	Not available
Solubility:	Water: 45 mg/mL

Section 10: Stability and Reactivity Data

Reactivity: Not available.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Not available.

Conditions to avoid: Light.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides.

Section 11: Toxicological Information

Acute toxicity:

Not available.

Skin corrosion/irritation:

Not available.

Respiratory or skin sensitization:

Not available.

Chronic effects:

Not available.

Germ cell mutagenicity:

Not available.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity:

Not available.

STOT-single exposure:

Not available.

STOT-repeated exposure:

Not available.

Aspiration hazard:

Not available.

Likely routes of exposure:

Respiratory organs, mouth, skin, and eyes.

Symptoms of exposure:

Vomiting and diarrhea. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information**Toxicity:**

Not available.

Persistence and degradability:

Not available.

Mobility in soil:

Not available.

Section 13: Disposal Considerations

Only professional staff trained in such techniques must undertake waste disposal. Observe all appropriate federal, provincial or state and local regulations. The material for disposal should be mixed with, or dissolved in, a combustible solvent and burnt in a chemical incinerator equipped with an afterburner and scrubber.

Section 14: Transport Information**US Department of Transportation (DOT)**

UN Number: 1544
Proper Shipping Name: Alkaloids, solid, n.o.s. (Colchicine)
Class: 6.1
Packing Group: I
Marine Pollutant: No

International Maritime Dangerous Goods (IMDG)

UN Number: 1544
Proper Shipping Name: Alkaloids, solid, n.o.s. (Colchicine)
Class: 6.1
Packing Group: I
EMS-No: F-A, S-A
Marine Pollutant: No

International Air Transport Association (IATA)

UN Number: 1544
Proper Shipping Name: Alkaloids, solid, n.o.s. (Colchicine)
Class: 6.1

Packing Group: I
Marine Pollutant: No

Section 15: Regulatory Information

OSHA Hazards

Target Organ Effect, Highly toxic by inhalation, Highly toxic by ingestion, Irritant, Teratogen

SARA 302 Components:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components: CAS-No.
Colchicine 64-86-8

Pennsylvania Right To Know Components: CAS-No.
Colchicine 64-86-8

New Jersey Right To Know Components: CAS-No.
Colchicine 64-86-8

California Prop. 65 Components:

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. CAS-No.
Colchicine 64-86-8

Section 16: Other Information

While Gold Biotechnology, Inc. believes the information contained herein to be true and accurate, it has relied on information provided by others. Gold Biotechnology, INC. makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or with respect to the results to be obtained from the use of the product. Gold Biotechnology, Inc. disclaims all liability with respect to the use of this product, including without limitation, liability for injury to the user or third-party persons.

Last updated: 05/07/2014