

# Colchicine: sc-207452



*The Power to Question*

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Colchicine  
**Catalog Number:** sc-207452  
**Supplier:** Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, California 95060  
800.457.3801 or 831.457.3800  
**Emergency:** ChemWatch  
Within the US & Canada: 877-715-9305  
Outside the US & Canada: +800 2436 2255  
(1-800-CHEMCALL) or call +613 9573 3112

### 2. HAZARDS IDENTIFICATION

#### Target Organs

Liver, Kidney, Bone marrow, Nerves, Cardiovascular system.

#### WHMIS Classification

D1A	Very Toxic Material Causing Immediate and	Highly toxic by ingestion
D2A	Serious Toxic Effects	Highly toxic by inhalation
D2B		Teratogen
		Moderate eye irritant

#### GHS Classification

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

#### GHS Label elements, including precautionary statements

Signal word Danger

#### Hazard statement(s)

H300 + H330 Fatal if swallowed or if inhaled.  
H318 Causes serious eye damage.

#### Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face protection.  
P284 Wear respiratory protection.  
P305 + P351 + P338 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.

#### HMIS Classification

**Health hazard:** 4  
**Chronic Health Hazard:** \*  
**Flammability:** 0  
**Physical hazards:** 0

#### Potential Health Effects

<b>Inhalation</b>	May be fatal if inhaled. Causes respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.
<b>Ingestion</b>	May be fatal if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Molecular Formula:** C<sub>21</sub>H<sub>23</sub>NO<sub>6</sub>  
**Molecular Weight:** 385.41  
**CAS Registry #:** 477-27-0  
**EC#:**  
**Synonyms:** N-[(7S)-5,6,7,9-Tetrahydro-10-hydroxy-1,2,3-trimethoxy-9-oxobenzo[a]heptalen-7-yl]acetamide; O10-Demethylcolchicine; NSC 33411;

### 4. FIRST AID MEASURES

#### General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

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

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid dust or aerosol formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

#### Environmental precautions

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust or aerosols. Provide appropriate exhaust ventilation at places where dust/aerosol is formed. Normal measures for preventative fire protection.

#### Conditions for safe storage

Keep container tightly close in a dry and well-ventilated place. Store under inert atmosphere at 4° C.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (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).

**Hand 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.

**Eye protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Specific engineering controls**

Use mechanical exhaust or laboratory fumehood to avoid exposure.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Off-white to pale yellow solid

**Safety data**

pH	N/A	Melting point	172-174°C
Boiling point	N/A	Flash point	N/A
Ignition temperature	N/A	Lower explosion limit	N/A
Upper explosion limit	N/A	Vapour pressure	N/A
Density	N/A	Water solubility	N/A

**10. STABILITY AND REACTIVITY****Chemical stability**

no data available

**Conditions to avoid**

Stable under recommended storage conditions.

**Materials to avoid**

Strong oxidizing agents.

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions: carbon oxides, nitrogen oxides (NOx).

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

LDLo (Oral - human) 43 ug/kg  
LD50 (Intravenous - rat) 2500 ug/kg  
LD50 (Subcutaneous - rat) 75 mg/kg  
LD50 (Intraperitoneal - mouse) 84 mg/kg

**Inhalation LC50/Dermal LD50**

no data available

**Other information on acute toxicity**

no data available

**Skin corrosion/irritation/Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

Laboratory tests have shown mutagenic effects.

**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.

**Reproductive toxicity**

no data available

**Teratogenicity**

Laboratory experiments have shown teratogenic effects.

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential Health Effects****Inhalation**

May be fatal if inhaled. Causes respiratory tract irritation.

**Skin**

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

**Eyes**

Causes eye irritation.

**Ingestion**

May be fatal if swallowed.

**Signs and Symptoms of Exposure**

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

**Synergistic effects**

no data available

**Additional Information**

RTECS:GH0520000

## 12. ECOLOGICAL INFORMATION

**Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

## 13. DISPOSAL CONSIDERATIONS

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

**DOT (US)**

UN-Number: 1544 Class: 6.1 Packing group: I

Proper shipping name: Alkaloids, solid, n.o.s. (Colchicine)

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG**

UN-Number: 1544 Class: 6.1 Packing group: I EMS-No: F-A, S-A

Proper shipping name: ALKALOIDS, SOLID, N.O.S. (Colchicine)

Marine pollutant: No

**IATA**

UN-Number: 1544 Class: 6.1 Packing group: I

Proper shipping name: Alkaloids, solid, n.o.s. (Colchicine)

## 15. REGULATORY INFORMATION

**DSL Status**

Product is not on the Canadian DSL list.

**WHMIS Classification**

D1A

Very Toxic Material Causing Immediate and

Highly toxic by ingestion

D2A

Serious Toxic Effects

Highly toxic by inhalation

D2B

Teratogen

Moderate eye irritant

*The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.*