

# 8-Desacetyl-8-carboxy Daunorubicin Hydrochloride: sc-210677



The Power to Question

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 8-Desacetyl-8-carboxy Daunorubicin Hydrochloride

**Catalog Number:** sc-210677

**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

Bone marrow, Heart

#### WHMIS Classification

D1B  
D2A  
D2B

Toxic Material Causing Immediate and  
Serious Toxic Effects

Toxic by ingestion  
Respiratory sensitiser  
Mutagen

#### HMIS Classification

**Health hazard:** 2  
**Chronic Health Hazard:** \*  
**Flammability:** 0  
**Physical hazards:** 0

#### Potential Health Effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.  
**Ingestion** Toxic if swallowed.

#### GHS Classification

Acute toxicity, Oral (Category 3)  
Respiratory sensitization (Category 1)  
Carcinogenicity (Category 2)

#### GHS Label elements, including precautionary statements

**Signal word** Danger

#### Hazard statement(s)

H301 Toxic if swallowed.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351 Suspected of causing cancer.

#### Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P281 Use personal protective equipment as required.  
P301/P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P342/P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

#### GHS Label Pictogram



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Molecular Formula:** C<sub>26</sub>H<sub>28</sub>ClNO<sub>11</sub>

**Molecular Weight:** 565.95

**CAS Registry #:** 58199-96-5

**EC#:**

**Synonyms:** (2S-CIS)-4-[(3-AMINO-2,3,6-TRIDEOXY-α-LYXO-HEXOPYRANOSYL)OXY]-1,2,3,4,6,11-HEXAHYDRO-2,5,12-TRIHYDROXY-7-METHOXY-6,11-DIOXO-2-NAPHTHACENECARBOXYLIC ACID; NSC 235816;

## 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. Light sensitive. Store at -20°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**

|                       |       |                       |               |
|-----------------------|-------|-----------------------|---------------|
| Form                  | Solid | Melting point         | >180°C (dec.) |
| pH                    | N/A   | Flash point           | N/A           |
| Boiling point         | N/A   | Lower explosion limit | N/A           |
| Ignition temperature  | N/A   | Vapour pressure       | N/A           |
| Upper explosion limit | N/A   | Water solubility      | N/A           |
| Density               | N/A   |                       |               |

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

Stable under recommended storage conditions.

**Conditions to avoid**

no data available

**Materials to avoid**

Strong oxidizing agents.

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions: carbon oxides, nitrogen oxides, hydrogen chloride.

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

no data available

**Irritation and corrosion**

no data available

**Sensitization**

May cause an allergic respiratory reaction

**Germ Cell Mutagenicity**

Laboratory results have shown mutagenic effects.

**Carcinogenicity**

Limited evidence of carcinogenicity in animals.

IARC: To the best of our knowledge, this compound has not been identified as a possible or potential human carcinogen by IARC.

**Reproductive toxicity**

no data available

**Potential health effects**

|                   |                                                                     |
|-------------------|---------------------------------------------------------------------|
| <b>Inhalation</b> | May be harmful if inhaled. May cause respiratory tract irritation.  |
| <b>Ingestion</b>  | Toxic if swallowed.                                                 |
| <b>Skin</b>       | May be harmful if absorbed through skin. May cause skin irritation. |
| <b>Eyes</b>       | May cause eye irritation.                                           |

**Signs and Symptoms of Exposure**

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

**Additional Information**

RTECS: no data available

**12. ECOLOGICAL INFORMATION****Toxicity**

no data available

**PBT and vPvB assessment**

no data available

**Bioaccumulative potential**

no data available

**Persistence and degradability**

no data available

**Other adverse effects**

no data available

**Mobility in soil**

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: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic solids, organic, n.o.s. (8-Desacetyl-8-carboxy Daunorubicin Hydrochloride)

Marine pollutant: No

Poison Inhalation Hazard: No

#### IMDG

UN-Number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (8-Desacetyl-8-carboxy Daunorubicin Hydrochloride)

Marine pollutant: No

#### IATA

UN-Number: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic solid, organic, n.o.s. (8-Desacetyl-8-carboxy Daunorubicin Hydrochloride)

### 15. REGULATORY INFORMATION

#### DSL Status

Product is not on the Canadian DSL or NDSL list.

#### WHMIS Classification

D1B

D2A

D2B

Toxic Material Causing Immediate and  
Serious Toxic Effects

Toxic by ingestion  
Respiratory sensitiser  
Mutagen

### 16. OTHER INFORMATION

*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.*

12/21/2010