

# Hellebrin: sc-202645



The Power to Question

## MATERIAL SAFETY DATA SHEET

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Hellebrin  
**CATALOG CODE:** sc-202645  
**SYNONYMS:** 3 $\beta$ -(O4- $\beta$ -D-Glucopyranosyl- $\alpha$ -L-rhamnopyranosyloxy)-5,14-dihydroxy-19-oxo-5 $\beta$ ,14- $\beta$ -bufa-20,22-dienolide  
**SUPPLIER:** Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, CA 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

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<i>Formula:</i>	<i>CAS #</i>	<i>EC #</i>	<i>Annex I Index #</i>
C36H52O15	13289-18-4	N/A	N/A

### SECTION 3: HAZARDS IDENTIFICATION

**ACUTE HEALTH EFFECTS:** VERY TOXIC. Fatal by inhalation, ingestion, or skin absorption.

### SECTION 4: FIRST AID MEASURES

**EYES:** Rinse immediately with plenty of water for 15 minutes. Check for and remove any contact lenses. Seek medical attention if symptoms appear.  
**SKIN:** Wash immediately with water for 15 minutes. Remove contaminated clothing. Seek medical attention if symptoms appear.  
**INGESTION:** Rinse mouth with water. Do not induce vomiting. Seek medical attention if symptoms appear. Provide MSDS and label information if possible.  
**INHALATION:** Take into fresh air. If breathing is difficult, administer oxygen. Get medical attention.

### SECTION 5: FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Water spray, water foam, polymer foam, carbon dioxide, dry chemicals.  
**SPECIAL FIRE FIGHTING PROCEDURES:** In case of fire, watch out for the formation of toxic smoke and gases. Wear self-contained respiration equipment. Prevent contact with skin and eyes.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** May be combustible at high temperatures.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** N/A

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Evacuate area. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

## ACCIDENTAL RELEASE

### MEASURES:

Avoid formation of dust, sweep up spill and place in sealed container and hold for disposal. Ventilate area and wash spill site after material pickup is complete.

## SECTION 7: HANDLING AND STORAGE

**HANDLING AND STORAGE:** Keep locked up. Keep away from heat, sources of ignition and incompatibles such as oxidizing agents. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Avoid contact with skin and eyes; do not breathe dust. Avoid prolonged or repeated exposure. Immediately remove all contaminated clothing. Wash hands before breaks and after work. Avoid eating, drinking and storage of food in the work room. Store tightly sealed at -20°C.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use only in chemical fume hood. Safety shower and eye bath.

**VENTILATION:** Government approved respirator.

**EYE PROTECTION:** Chemical safety goggles.

**SKIN PROTECTION:** Compatible gloves, protective coat or clothing.

**SECTION 8 NOTES:** Wash thoroughly after handling. Wash contaminated clothing before reuse.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	White solid.	<b>ODOR:</b>	N/A
<b>pH AS SUPPLIED:</b>	N/A	<b>BOILING POINT:</b>	N/A
<b>MELTING POINT:</b>	N/A	<b>FREEZING POINT:</b>	N/A
<b>VAPOR PRESSURE (mmHg):</b>	N/A	<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b>	N/A
<b>EVAPORATION RATE:</b>	N/A	<b>SOLUBILITY:</b>	Soluble in water.
<b>MOLECULAR WEIGHT:</b>	724.8		

## SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** Stable. Avoid strong oxidizing agents.

### HAZARDOUS

**DECOMPOSITION:** Carbon monoxide, carbon dioxide.

### HAZARDOUS

**POLYMERIZATION:** Will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

**RTECS # :** 12626-45-8

### TOXICOLOGICAL INFORMATION:

VERY TOXIC. Fatal by inhalation, ingestion, or skin absorption. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

**LD50:** Mouse [Intraperitoneal]: 8.4 mg/kg  
Rat [Intravenous]: 21 mg/kg  
Cat [Intravenous]: 0.104 mg/kg

**CHRONIC EXPOSURE:** Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

### CHRONIC EXPOSURE- CARCINOGEN:

Not available.

### CHRONIC EXPOSURE- MUTAGEN:

Not available.

### CHRONIC EXPOSURE- TERATOGEN:

Not available.

## SECTION 12: ECOLOGICAL INFORMATION

### ECOLOGICAL

**INFORMATION:** N/A

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **WASTE DISPOSAL**

#### **METHOD:**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## **SECTION 14: TRANSPORT INFORMATION**

### **INTERNATIONAL TRANSPORT REGULATIONS:**

**LAND – ROAD/RAILWAY:** ADR/RID: Not available.

**SEA:** IMDG: Not available.

**AIR:** IATA-DGR: Not available.

### **SPECIAL PROVISIONS**

**FOR TRANSPORT:** N/A

## **SECTION 15: REGULATORY INFORMATION**

### **CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES:**

**SYMBOL OF DANGER:** T+, very toxic

**R-PHRASES:** R26/27/28 – Very toxic by inhalation, in contact with skin and if swallowed.

**S-PHRASES:** S7 – Keep container tightly closed.

S22 – Do not breathe dust.

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 where possible).

### **U.S. FEDERAL**

**REGULATIONS:** Not available.

**HCS CLASSIFICATION:** Not available.

**WHMIS (CANADA):** Not available.

## **SECTION 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.*

9/24/2010