

# Monensin A: sc-362032



The Power to Question

## MATERIAL SAFETY DATA SHEET

### SECTION 1. CHEMICAL IDENTIFICATION

**PRODUCT NAME:** Monensin A  
**CATALOG NBR:** sc-362032  
**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. HAZARDS IDENTIFICATION

**Hazard Classification:** Hazardous substance, non-dangerous goods

**Risk Phrase (Hazard Statements):**

R28 Very toxic if swallowed

**Safety Phrases (Precautionary Statements)**

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

**Hazard Symbols**

Signal Words Very Toxic



### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Synonyms:** Monensic acid, Lilly 67314, Antibiotic A 3223A.

**Formula:** C<sub>36</sub>H<sub>62</sub>O<sub>11</sub>

**Molecular weight:** 670.87

<i>CAS-No.</i>	<i>EC-No.</i>	<i>Index-No.</i>	<i>RTECS No.</i>
<b>Monensin A</b> 17090-79-8	-	-	JH2829500

### SECTION 4. FIRST AID MEASURES

**General advice**

As a precaution, remove contaminated clothing and shoes following exposure. If discomfort, skin or eye irritation or breathing difficulty develop, seek medical attention.

**Inhalation:** If breathed in, move person into well ventilated area and seek medical attention.

**Skin contact:** Wash contaminated skin and hair with soap and water and rinse with water for at least 15 minutes. Remove contaminated clothing and shoes. If discomfort or irritation develop, seek medical attention.

**Eye contact:** Flush eyes continuously with water whilst holding the eyelids apart. If discomfort or irritation develop, seek medical attention.

**Ingestion:** Check for and remove dentures. Clear mouth. DO NOT induce vomiting unless directed to do so by medical personnel. Seek medical attention immediately.

## SECTION 5. FIRE-FIGHTING MEASURES

### Flammability

No available data

### Flash Point

No available data

### Combustion Products

No available data

**Extinguishing Media:** Select fire fighting media appropriate to the other materials involved in the fire.

**Special Firefighting Procedures:** Material may be flammable at high temperatures. It is recommended that fire fighters should wear protective gear and self-contained breathing apparatus to limit personal exposure.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions

Take measures to limit release into the environment.

### Methods and materials for containment and cleaning up

Contain spillage. Wear appropriate protective gear as outlined under "Protective Equipment". Sweep up spill and dispose of all contaminated materials safely. Wash spill site with water until all material has been removed.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Wash thoroughly after handling the material. Remove contaminated clothing and protective equipment before entering eating areas.

### Conditions for safe storage

Storage temperature: -20 °C. Store at the indicated temperature in a tightly closed container.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### National Exposure Standards

No data available

### Biological Limit Values

No data available

### Engineering Controls

Not applicable

### Personal Protective Equipment

During routine use, wear suitable protective clothing; laboratory coat, gloves and safety glasses. Use type N95 (US) or type P1 (EN 143) dust masks to avoid breathing in dust.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Solid

**Melting Point:** No data available

**Solubility:** Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

## SECTION 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

No data available

### Incompatible materials

Strong oxidizing agents

### Hazardous decomposition products

No data available

**Hazardous reactions**

No data available

**Hazard symbols**

T - Toxic

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute and chronic health effects**

**Oral LD50** : 100 mg/kg (rat); 2 mg/kg (horse/donkey); 12 mg/kg (domestic mammal)

**Inhalation LD50** : No data available

**Dermal LD50** : No data available

**Other toxicity**: Not toxic by inhalation in rats (10mg/M<sup>3</sup> for 1hr/D for 14D) or dogs (0.15mg/M<sup>3</sup> for 6hr/D for 90D); TDL0 300 mg/kg/2D intermittent (chicken, oral)

**Skin corrosion / irritation**

Mild irritant in the standard Draize test (rabbit) at 100 mg/24hr

**Serious eye damage / eye irritation**

Mild to moderate irritant in the rabbit

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

Not identified as a germ cell mutagen

**Carcinogenicity**

Not identified as a carcinogen

**Reproductive toxicity**

Not toxic to reproduction.

**Teratogenicity**

Not identified as a teratogen

**Specific target organ toxicity**

**Single exposure**: (globally harmonized system): Behavioral (tremor, convulsions); nutritional and gross metabolic (weight loss); gastrointestinal (hypermotility)

**Repeated exposure**: (globally harmonized system): Cardiac (cardiomyopathy including infarction); biochemical  
Aspiration hazard No data available

**Potential health effects**

**Inhalation** May be harmful if inhaled.

**Ingestion** Very toxic if swallowed.

**Skin** Causes skin irritation.

**Eyes** Causes eye irritation.

**Signs and symptoms of exposure**

Monensin is marketed as Rumensin® for treatment of coccidiosis in cattle. Refer to current approved product information.

**Synergistic effects**

No data available

**Additional information**

RTECS No.: JH2829500

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

Toxic to aquatic organisms. Do not contaminate, dams, rivers, stream or other waterways with the chemical or its container.

**Aquatic toxicity**

Toxicity to fish

Mild toxicity in fish species

Toxicity to daphnia and other aquatic invertebrates

Minimal toxicity in invertebrates

Toxicity to algae

No data available

**Persistence and degradability**

No data available

**Mobility in soil**

No data available

**PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Product**

Dispose as for toxic waste.

**Packaging**

Dispose of as for unused product

**SECTION 14. TRANSPORT INFORMATION****IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**ADR/RID**

Not dangerous goods

**Special precautions for user**

Not applicable

**SECTION 15. REGULATORY INFORMATION****Labeling according to EC directives**

**Hazard Symbols:** T - Toxic

**R-Phrases**

R28            Very toxic if swallowed

**S-Phrases**

S36/37/39    Wear suitable protective clothing, gloves and eye/face protection

S62            If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

**SUSDP (Australia only)**

Schedule 4 - Prescription Only Medicine

**Chemical safety assessment**

Not carried out

**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.*

8/15/2012