

# Kirromycin from *Streptomyces collinus*: sc-250209



The Power to Question

## MATERIAL SAFETY DATA SHEET

### Section 1 - Product and Company Information

Product Name Kirromycin from *Streptomyces collinus*

Catalog Number sc-250209

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

### Section 2 - Composition/Information on Ingredient

| Substance Name                        | CAS #      | SARA 313 |
|---------------------------------------|------------|----------|
| KIRROMYCIN FROM STREPTOMYCES COLLINUS | 50935-71-2 | No       |

| Ingredient Name  | CAS #    | Percent | SARA 313 |
|--|----------|---------|----------|
| The hazards identified with this product are those associated with the residual solvents that are used in the manufacturing process. | None     |         |          |
| ETHYL ACETATE  | 141-78-6 | <= 1    | No       |

Formula C43H60N2O12

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Irritant.

Irritating to eyes, respiratory system and skin. Repeated exposure may cause skin dryness or cracking.

Target organ(s): Kidneys. Blood.

#### HMIS RATING

HEALTH: 2\*

FLAMMABILITY: 0

REACTIVITY: 0

#### NFPA RATING

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 0

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

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## Section 4 - First Aid Measures

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### ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

### INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

### DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

### EYE EXPOSURE

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

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## Section 5 - Fire Fighting Measures

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### FLASH POINT

N/A

### AUTOIGNITION TEMP

N/A

### FLAMMABILITY

N/A

### EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
Specific Hazard(s): Emits toxic fumes under fire conditions.

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## Section 6 - Accidental Release Measures

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### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

### METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

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## Section 7 - Handling and Storage

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### HANDLING

User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### STORAGE

Suitable: Keep tightly closed.  
Store at -20°C

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## Section 8 - Exposure Controls / PPE

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### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

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## Section 9 - Physical/Chemical Properties

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|                       |                       |                            |
|-----------------------|-----------------------|----------------------------|
| Appearance            | Physical State: Solid |                            |
| Property              | Value                 | At Temperature or Pressure |
| Molecular Weight      | 796.94 AMU            |                            |
| pH                    | N/A                   |                            |
| BP/BP Range           | N/A                   |                            |
| MP/MP Range           | N/A                   |                            |
| Freezing Point        | N/A                   |                            |
| Vapor Pressure        | N/A                   |                            |
| Vapor Density         | N/A                   |                            |
| Saturated Vapor Conc. | N/A                   |                            |
| Bulk Density          | N/A                   |                            |
| Odor Threshold        | N/A                   |                            |
| Volatile%             | N/A                   |                            |
| VOC Content           | N/A                   |                            |
| Water Content         | N/A                   |                            |
| Solvent Content       | N/A                   |                            |
| Evaporation Rate      | N/A                   |                            |
| Viscosity             | N/A                   |                            |
| Surface Tension       | N/A                   |                            |
| Partition Coefficient | N/A                   |                            |
| Decomposition Temp.   | N/A                   |                            |
| Flash Point           | N/A                   |                            |
| Explosion Limits      | N/A                   |                            |
| Flammability          | N/A                   |                            |
| Autoignition Temp     | N/A                   |                            |
| Refractive Index      | N/A                   |                            |
| Optical Rotation      | N/A                   |                            |
| Miscellaneous Data    | N/A                   |                            |
| Solubility            | N/A                   |                            |

N/A = not available

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## Section 10 - Stability and Reactivity

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### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

#### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

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### Section 11 - Toxicological Information

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#### ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.  
Skin Absorption: May be harmful if absorbed through the skin.  
Eye Contact: Causes eye irritation.  
Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.  
Ingestion: May be harmful if swallowed.

#### TARGET ORGAN(S) OR SYSTEM(S)

Central nervous system. Blood. Kidneys. Liver.

#### SIGNS AND SYMPTOMS OF EXPOSURE

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

#### TOXICITY DATA

Intraperitoneal  
Mouse  
500 MG/KG  
LD50

#### CHRONIC EXPOSURE - CARCINOGEN

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

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### Section 12 - Ecological Information

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No data available.

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### Section 13 - Disposal Considerations

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#### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. 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.

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### Section 14 - Transport Information

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#### DOT

Proper Shipping Name: None  
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

#### IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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Section 15 - Regulatory Information

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US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Irritant.

Risk Statements: Irritating to eyes, respiratory system and skin. Repeated exposure may cause skin dryness or cracking.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US Statements: Target organ(s): Kidneys. Blood.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

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Section 16 - Other Information

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DISCLAIMER

For R&D use only. Not for drug, household or other uses.

***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.***