

Dihydroavermectin B1a: sc-202138



The Power to Question

MATERIAL SAFETY DATA SHEET

SECTION 1. Chemical Identification

Name	Dihydroavermectin B1a	
Synonym	Ivermectin, Ivermectin B1a, 22, 23-Dihydro-avermectin B1a	
CAS Number	70161-11-4	
Catalog Number	sc-202138	
Chemical Formula	$C_{48}H_{74}O_{14}$	Emergency
Company	Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, California 95060 800.457.3801 or 831.457.3800	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. Health Hazard Data

Acute Health Effects

The toxicological properties of this compound have not been fully investigated. Exercise appropriate precautions to prevent opportunities for inhalation and to prevent direct contact with skin and eyes. All uncharacterized chemicals should be treated as suspected toxins.

Chronic Health Effects

Unknown

SECTION 3. First Aid Measures

Eye Contact

Check for and remove contact lenses. Flush eyes with running water for at least 15 minutes separating eyelids. Seek medical attention immediately.

Skin Contact

Wash with water for 15 minutes. Remove contaminated clothing and shoes. Seek medical attention immediately.

Inhalation

Remove from exposure. If breathing is difficult, administer oxygen. If breathing stops, administer artificial respiration. Seek medical attention immediately. Provide chemical label and MSDS if possible.

Ingestion

Remove dentures and clear mouth. If person is conscious, rinse mouth with water. Call physician or poison control immediately. Provide chemical label and MSDS information if possible.

SECTION 4. Fire and Explosion Data

Flammability

Not Available

Flash Point

Not Available

Combustion Products

Unknown

Extinguishing Media

Carbon Dioxide, Dry chemical powder, polymer foam, water spray

Special Firefighting Procedures

Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire/Explosion Hazards

May emit toxic gases upon thermal decomposition.

SECTION 5. Spill or Leak Procedures

Cleanup Procedures

EVACUATE AREA Wearing appropriate protective gear as outlined under "Protective equipment" sweep up spill and place in sealed container and hold for disposal. Avoid raising dust. Ventilate the area and wash spill site after material has been removed.

Waste Disposal Method

Observe all Federal, State and Local regulations concerning the disposal of this product.

SECTION 6. Storage and Handling Precautions

Protective Equipment

For spill clean up, wear suitable protective clothing, chemical resistant rubber gloves, rubber boots, and chemical safety goggles. Self contained breathing apparatus or NIOSH/MSHA approved respirator is recommended.

Storage and Handling

This product should be stored at -20°C. It should be kept in a tightly closed container. This product should be handled only by qualified experienced professionals. Wash thoroughly after handling this material

SECTION 7. Physical Data

Appearance	White solid	Vapor Density	Not Available
Molecular Weight	875.1	Specific Gravity	Not Available
Boiling Point	Not Available	Vapor Pressure	Not Available
Melting Point	Not Available	Volatility	Not Available
Solubility	Soluble in ethanol, methanol, DMF or DMSO. Slightly soluble in water.		

SECTION 8. Stability and Reactivity Data

Stability

This material is stable if stored as directed.

Conditions to Avoid

None known

Incompatibles

Not available

SECTION 9. Toxicity Data

RTECS#

Not available

Acute toxicity (for Ivermectin = dihydroavermectin B1a + B1b)

Type of test : LD₅₀ - lethal dose, 50 percent kill

Route of exposure : Oral

Species observed : Human (adult)

Dose/duration : LD50 = >15 mg/kg

Type of test : LD₅₀ - lethal dose, 50 percent kill

Route of exposure : Dermal

Species observed : rodent - rat

Dose/duration : LD50 = >660 mg/kg

Type of test : LD₅₀ - lethal dose, 50 percent kill

Route of exposure : Oral

Species observed : Rhesus monkey

Dose/duration : LD50 = >24 mg/kg

Type of test : LD₅₀ - lethal dose, 50 percent kill

Route of exposure : Subcutaneous

Species observed : Dog

Dose/duration : LD50 = ~ 10 mg/kg

SECTION 10. Ecological Data

Ecotoxicological Information

None Available

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.