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1. PRODUCT AND COMPANY IDENTIFICATION

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**Product Name** Anisomycin  
**Product Number** 2222  
**Identified Uses** For Research Use Only (RUO). Not intended for use in humans or animals.  
Not intended for therapeutic or diagnostic procedures.

**Manufacturer/Supplier** Cell Signaling Technology, Inc.  
3 Trask Lane  
Danvers, MA 01923 USA

**Phone #:** 978-867-2300

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2. HAZARDS IDENTIFICATION

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**Emergency Overview**

**Danger**



**OSHA Hazards**

Toxic by Ingestion

**GHS Classification**

Acute Toxicity, Oral (Category 3)

**Physical State**

Solid powder

**Potential Health Effects**

**Acute Toxicity**

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

**Target organ effects** Respiratory tract, Gastrointestinal tract

**Chronic Effects**

Carcinogenic effects	No data available.
Mutagenic effects	No data available.
Reproductive toxicity	No data available.
Sensitization	No data available.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

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**Hazardous Ingredients**

Chemical Name	CAS No.	EC No.	Concentration
Anisomycin; 1,4,5-Trideoxy-1,4-imino-5-(p-methoxyphenyl)-D-xylo-pentitol 3-acetate	22862-76-6	245-269-7	>95%

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**4. FIRST AID MEASURES**


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<b>Eye Contact</b>	Rinse immediately with plenty of water for at least 15 minutes. Get medical attention.
<b>Skin Contact</b>	Rinse immediately with soap and plenty of water. Get medical attention immediately.
<b>Inhalation</b>	Move to fresh air. Get medical attention.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water.
<b>Notes to physician</b>	Treat symptomatically.

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**5. FIRE FIGHTING MEASURES**


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<b>Flash Point</b>	See Section 9. Physical and Chemical Properties
<b>Suitable Extinguishing Media</b>	Use dry chemical , water spray, alcohol resistant foam or carbon dioxide.
<b>Special exposure hazards</b>	Hazardous decomposition products formed under fire conditions –toxic gases can be evolved.
<b>Special protection for fire fighters</b>	Wear self-contained breathing apparatus and protective unit
<b>Other information</b>	No data available

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**6. ACCIDENTAL RELEASE MEASURES**


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<b>Personal precautions</b>	Avoid contact with skin, eyes, clothing. Avoid creating dusts during clean up.
<b>Environmental precautions</b>	Prevent product from entering drains. Prevent further spillage if safe to do so.

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**7. HANDLING AND STORAGE**


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<b>Safe handling advice</b>	Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.
<b>Storage conditions</b>	Keep container tightly closed in cool dry place.
<b>Incompatibilities</b>	No data available
<b>Specific end uses</b>	No data available

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**


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**Exposure Limits**

This product contains no substances with established exposure limit values.

**Engineering Measures**

Emergency eyewash and safety shower. Mechanical exhaust required.

**Hygiene Measures**

Do not eat, drink or smoke when handling product. Wear suitable gloves and eye/face protection. Wash hands thoroughly after handling product. Regular cleaning of equipment, work area and clothing is recommended. Wash contaminated clothing before reuse.

**Personal Protective Equipment****Respiratory Protection**

In case of insufficient ventilation wear suitable respiratory protective equipment tested and approved under appropriate government standards such as NIOSH, CEN)

**Eye Protection:**

Safety glasses tested and approved under appropriate government standards such as NIOSH

**Skin and body protection:**

Wear suitable protective clothing, protective shoes or boots.

**Hand protection:**

Wear compatible chemical resistant gloves. Dispose of gloves in accordance with applicable laws and good laboratory practices.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Information on basic physical and chemical properties**

Physical State	solid powder
Appearance	off-white
Odor	no data available
pH	no data available
Melting point/freezing point	139 - 141°C (282.2 - 285.8°F)
Boiling point	no data available
Evaporation rate	no data available
Flash point	no data available
Autoignition temperature	no data available
Flammability limits in air	no data available
Explosive properties	no data available
VOC content	no data available
Decomposition temperature	no data available
Solubility	Soluble in methanol

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**10. STABILITY AND REACTIVITY**

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<b>Stability</b>	Stable under normal conditions.
<b>Conditions/Materials to avoid</b>	No data available
<b>Hazardous decomposition products</b>	No data available

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**11. TOXICOLOGICAL INFORMATION**

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**Acute Toxicity**

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

Acute Oral Toxicity : LD50 Oral, rat 72 mg/kg

**Routes of Exposure****Potential Health Effects****Acute Toxicity**

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

**Target organ effects** No information available

**Chronic Effects**

Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive toxicity	No information available
Teratogenic effects	No information available
Sensitization	No information available

Additional Information: RTECS BZ9800000

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**12. ECOLOGICAL INFORMATION**

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**Ecotoxicity** No data available

**Persistence and degradability** No data available

**Bioaccumulation** No data available

**Mobility** No data available

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**13. DISPOSAL CONSIDERATIONS**

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**Waste Disposal Methods** Dispose of in accordance with all applicable environmental laws and regulations.

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**14. TRANSPORT INFORMATION**

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**IATA/DOT/IMDG**

Proper Shipping Name	Toxins, extracted from living sources, solid, n.o.s. (Anisomycin, Streptomyces griseolus)
Hazard Class	6.1 Toxic Substance
Subsidiary Class	No information available
Packing Group	III
UN-No	3462
Marine Pollutant:	No
Poison Inhalation Hazard:	No

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**15. REGULATORY INFORMATION**

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**OSHA Hazards**

Toxic by Ingestion

**GHS Classification**

Acute Toxicity, Oral (Category 3)



Pictogram:  
Signal Word:       Warning

Hazard Statements  
H301               Toxic if swallowed

Precautionary Statements  
P301+P310       IF SWALLOWED: immediately call Poison Control or doctor/physician.

### U.S. Federal Regulations

#### SARA 302

No chemicals in this material are subject to reporting requirements established by SARA Title III, Section 302

#### SARA 311/312

Acute Health Hazard

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals that exceed the reporting levels of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act Amendments of 1990.

### U.S. State Regulations

Massachusetts Right-to-Know Components:  
None

New Jersey Right-to-Know Components:

1,4,5-Trideoxy-1,4-imino-5-(p-methoxyphenyl)-D-xylo-pentitol 3-acetate       CAS# 22862-76-6

Pennsylvania Right-to-Know Components:

1,4,5-Trideoxy-1,4-imino-5-(p-methoxyphenyl)-D-xylo-pentitol 3-acetate       CAS# 22862-76-6

#### California Proposition 65

This product does not contain chemicals known to the State of California to cause birth defects or other reproductive harm.

#### WHMIS Hazard Class

D1B       Toxic material causing immediate and serious effects

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

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**16. OTHER INFORMATION**

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**Revision date**      2012-07-27  
**Revision Note**    \*\*\*Indicates updated section

**Disclaimer**

The information provided on this material safety data sheet is to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Material Safety Data Sheet