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Revision: 08/14/2013 Supersedes Revision: 09/18/2006

Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108



# Section 1. Identification of the Substance/Mixture and of the

**1.1 Product Code:** 10009094

Product Name: TrxR Inhibitor

1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses:** For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet

Company Name: Cayman Chemical Company

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

Alternate Emergency Contact: CHEMTREC Outside USA and Canada: +1 (703)527-3887

Information: Cayman Chemical Company +1 (734)971-3335

Web site address: www.caymanchem.com

Section 2.	Hazards	Identification
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GHS Classification	Placard	Key word	GHS hazard phrase	
Skin Sensitization, Category 1	Exclamation	Warning	May cause an allergic skin reaction	
	point			

GHS Hazard Phrases: H317: May cause an allergic skin reaction.

**GHS Precaution Phrases:** P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.

P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

P362+364: Take off contaminated clothing and wash it before reuse.

**GHS Response Phrases:** P302+352: IF ON SKIN: Wash with plenty of soap and water.

P333+313: If skin irritation or rash occurs, seek medical advice/attention.

GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Effects and

Symptoms:

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause an allergic skin reaction.

May cause eye, skin, or respiratory system irritation.

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

Target Organs: No data available.

LD 50 / LC 50: Please refer to Section 11.

Medical Conditions Generally Aggravated By No data available.

Exposure:

## Section 3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS#	Concentration	EC#	Risk Phrases	RTECS #
Sodium aurothiomalate hydrate	12244-57-4	100.0 %	235-479-7	R43	MD5435000

### Section 4. First Aid Measures

4.1 Description of First Aid Measures:

**4.1.1 In Case of Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.



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**4.1.2** In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove

contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**4.1.3** In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes

examined and tested by medical personnel.

**4.1.4** In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

4.2 Important Symptoms and Effects,

**Both Acute and Delayed:** 

No data available.

4.3 Indication of any immediate medical attention and special treatment needed:

No data available.

# Section 5. Fire Fighting Measures

**5.1 Suitable Extinguishing Media:** Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

**5.2** Flammable Properties and Hazards: No data available.

Flash Pt: No data.

Autoignition Pt: No data available.

**Explosive Limits:** LEL: No data. UEL: No data.

Hazardous Combustion Products: No data available.

**5.3 Fire Fighting Instructions:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

### Section 6. Accidental Release Measures

**6.1 Protective Precautions, Protective** Avoid raising and breathing dust, and provide adequate ventilation.

**Equipment and Emergency Procedures:** As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

**6.2 Environmental Precautions:** Take steps to avoid release into the environment, if safe to do so.

**6.3 Methods and Material For** Contain spill and collect, as appropriate.

Containment and Cleaning Up: Transfer to a chemical waste container for disposal in accordance with local regulations.

# Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling: Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken in Storing: Keep container tightly closed.

Store in accordance with information listed on the product insert.

**Hazard Label Information:** Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.

Wash thoroughly after handling.

#### **Exposure Controls/Personal Protection** Section 8. **Hazardous Components (Chemical Name)** CAS# **OSHA PEL ACGIH TLV Other Limits** 1. Sodium aurothiomalate hydrate 12244-57-4 No data. No data. No data. **Hazardous Components (Chemical Name)** CAS# **Britain EH40** France VL Europe 1. Sodium aurothiomalate hydrate No data. 12244-57-4 No data. No data.

Protective Equipment Summary - Hazard Label Information:

glasses Safety shower in work area Vent Hood

8.2.1 Engineering Controls (Ventilation

etc.):

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.



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Revision: 08/14/2013 Supersedes Revision: 09/18/2006 8.2.2.1 Eye Protection: Safety glasses 8.2.2.2 Protective Gloves: Compatible chemical-resistant gloves Other Protective Clothing: Lab coat 8.2.2.3 Respiratory Equipment (Specify NIOSH approved respirator, as conditions warrant. Work/Hygienic/Maintenance Practices: Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety Wash thoroughly after handling. **Environmental Exposure Controls:** No data available. Section 9. Physical and Chemical Properties Information on Basic Physical and Chemical Properties **Physical States:** [ ] Gas [ ] Liquid [X] Solid Appearance and Odor: No data available. **Melting Point:** No data. **Boiling Point:** No data. Flash Pt: No data. **Evaporation Rate:** No data. Vapor Pressure (vs. Air or mm Hg): No data. Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = 1): No data. Solubility in Water: No data. **Autoignition Pt:** No data. **Explosive Properties:** No data available. **Oxidizing Properties:** No data available. Other Information **Percent Volatile:** No data. Section 10. Stability and Reactivity 10.1 Reactivity: No data available. Stability: 10.2 Unstable [ ] Stable [ X ] 10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. 10.4 **Conditions To Avoid:** No data available. 10.3 Polymerization: Will occur [ ] Will not occur [X] 10.5 Incompatibility - Materials To Avoid: No data available. 10.6 **Hazardous Decomposition Or** carbon dioxide **Byproducts:** carbon monoxide sulfur dioxide sodium oxides Section 11. Toxicological Information

11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.

Sodium aurothiomalate hydrate - Toxicity Data: Oral TDLO (woman): 19 mg/kg/26W (intermittent); Oral TDLO (man): 5500 µg/kg; Subcutaneous LD50 (rat): 303 mg/kg;

Subcutaneous LD50 (mouse): 930 mg/kg;



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Chronic Toxicological Effects:

Sodium aurothiomalate hydrate - Investigated as a reproductive effector.

Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information.

Sodium aurothiomalate hydrate RTECS Number: MD5435000

Hazardous Components (Chemical Name)CAS #NTPIARCACGIHOSHA1. Sodium aurothiomalate hydrate12244-57-4n.a.n.a.n.a.n.a.

### Section 12. Ecological Information

**12.1 Toxicity:** Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

### Section 13. Disposal Considerations

**13.1 Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations.

# Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT)

**DOT Proper Shipping Name**Not dangerous goods.

14.1 LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name Not dangerous goods.

14.3 AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name

Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

# Section 15. Regulatory Information

European Community Hazard Symbol codes Xi: Irritant

**European Community Risk and Safety Phrases** 

R43 - May cause sensitization by skin contact.

S24/25 - Avoid contact with skin and eyes.

 $S36/37/39 \quad \hbox{- Wear suitable protective clothing, gloves and eye/face protection.}$ 

### US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
Sodium aurothiomalate hydrate	12244-57-4	No	No	No	No
0.1 110 504 014 114			•	-	

#### Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
Sodium aurothiomalate hydrate	12244-57-4	No	No	No	No

Regulatory Information Statement: This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European

Directive 67/548/EEC as amended.

### Section 16. Other Information

**Revision Date:** 08/14/2013

### **Company Policy or Disclaimer**

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required