

Clerici's Solution: sc-263071



The Power to Question

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Clerici's Solution

Product Number: sc-263071

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components: Clerici's Solution

CAS Number: 61971-47-9

ACGIH Exposure Limits: None

OSHA Exposure Limits: None

Molecular Formula: C₄H₂O₆Tl₂

Molecular Weight: 554.82

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Danger, Highly Toxic by ingestion, inhalation, skin absorption.

Principle routes of exposure: Skin

Inhalation	Poison - may be fatal if inhaled
Ingestion	May be fatal if swallowed
Skin contact	Contact causes skin irritation May be fatal if absorbed through skin
Eye contact	May cause blindness

Statements of hazard

Toxic by inhalation, in contact with skin and if swallowed

Statement of Spill or Leak - ANSI Label

Isolate spillage. Evacuate unprotected persons. Use adequate protections when handling to avoid inhalation and contact with material.

4. FIRST AID MEASURES

General advice: Move out of dangerous area. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Remove contaminated cloths. Wash off immediately with soap and plenty of water Call a physician immediately

Ingestion: Call a physician immediately. Rinse mouth.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

Protection of first-aiders: No information available

Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO₂, water spray or "alcohol" foam

Specific hazards: Burning can emit highly toxic fumes of Thallium, Carbon monoxide, carbon dioxide

Unusual hazards: None known

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Specific methods: No information available

Flash point: Not determined

Autoignition temperature: Not determined

NFPA rating:

Health:	3
Flammability:	0
Reactivity:	1

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

Environmental precautions: Prevent product from entering drains.

Methods for cleaning up: Soak up with inert absorbent material. Retain all contaminated material for removal and treatment. Dispose off in accordance with all waste disposal regulations.

7. HANDLING AND STORAGE

Storage: Store at room temperature.

Handling: Use only in area provided with appropriate exhaust ventilation.

Safe handling advice: Wear personal protective equipment.

Incompatible products: Oxidizing and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Breathing apparatus only if aerosol or dust is formed.

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect.

Eye protection: Safety glasses with side-shields

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Melting point/range	No data available
Boiling point/range	No Data available	Density	4.36 g/cm ³
Vapor pressure	No data available	Evaporation rate	No data available
Vapor density	No data available	Solubility (in water)	No data available
Flash point	Not determined		

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Polymerization: None under normal processing.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors such as carbon oxides.

Materials to avoid: Strong oxidizing agents

Conditions to avoid: Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute toxicity

Components: Thallium (I) Malonate/Formate

RTECS Number: Not Available

Selected LD50s and LC50s: Not Determined

Chronic toxicity: Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.

Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.

Primary irritation: No data is available on the product itself.

Carcinogenic effects: No data is available on the product itself.

Mutagenic effects: No data is available on the product itself.

Reproductive toxicity: No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Mobility: No data available

Bioaccumulation: No data available

Ecotoxicity effects: No data available

Aquatic toxicity: May cause long-term adverse effects in the aquatic environment.

Components Thallium (I) Malonate/Formate	U.S. DOT - Appendix B - Marine Pollutan Not Listed	U.S. DOT - Appendix B - Severe Marine Pollutants Not Listed	United Kingdom - The Red List: Not Listed
Components Thallium (I) Malonate/Formate	Germany VCI (WGK) Not Listed	World Health Organization (WHO) - Drinking Water Not Listed	Ecotoxicity - Fish Species Data Not Listed
Components Thallium (I) Malonate/Formate	Ecotoxicity - Freshwater Algae Data Not Listed	Ecotoxicity - Microtox Data Not Listed	Ecotoxicity - Water Flea Data Not Listed
Components Thallium (I) Malonate/Formate	EPA - ATSDR Priority List Not Listed	EPA - HPV Challenge Program Chemical List Not Listed	California - Priority Toxic Pollutants Not Listed
Components Thallium (I) Malonate/Formate	California - Priority Toxic Pollutants Not Listed	California - Priority Toxic Pollutants Not Listed	

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California - Priority Toxic Pollutants: Not listed

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13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

Contaminated packaging: Do not re-use empty containers

Methods for cleaning up: Soak up with inert absorbent material. Retain all contaminated material for removal and treatment. Dispose off in accordance with all waste disposal regulations.

14. TRANSPORT INFORMATION

UN/Id No: UN ID 2810

DOT:

Proper shipping name: Toxic, liquid, organic, n.o.s
IATA Hazard Label(s): Toxic
Hazard Class 6.1
Packing group: II

Components U.S. DOT - Appendix A Table 1 - Reportable Quantities
Thallium (I) Malonate/Formate Not Listed

TDG (Canada):

WHMIS hazard class: D1a very toxic materials

IMDG/IMO

Proper shipping name: Toxic, liquid, organic, n.o.s

IMDG - Hazard Classifications 6.1

Components U.S. DOT - Appendix B - Marine Pollutan U.S. DOT - Appendix B - Severe Marine
Thallium (I) Malonate/Formate Not Listed Pollutants
Not Listed

15. REGULATORY INFORMATION

International Inventories: Thallium (I) Malonate/Formate

Inventory - United States TSCA - Sect. 8(b): Not listed

Canada DSL Inventory List: Not listed

U.S. regulations:

Components	California Proposition 65	Massachusetts Right to Know List:	New Jersey Right to Know List:	Pennsylvania Right to Know List:
Thallium (I) Malonate/Formate	- Not Listed	Not Listed	Not Listed	Not Listed

Components	Florida substance List:	Rhode Island Right to Know List:	Illinois - Toxic Air Contaminants	Connecticut - Hazardous Air Pollutants
Thallium (I) Malonate/Formate	Not Listed	Not Listed	Not Listed	Not Listed

Components	SARA 313 Emission reporting/Toxic Release of Chemicals	CERCLA/SARA - Section 302 Extremely Haz	NTP:	IARC:
Thallium (I) Malonate/Formate	Not Listed	Not Listed	None	None

SARA 313 Notification: The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of 1986 and 40 CFR Part 372. If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

State Notification: The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

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.

12/17/2012