



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# 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:** C<sub>4</sub>H<sub>2</sub>O<sub>6</sub>Tl<sub>2</sub>

**Molecular Weight:** 554.82

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

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

**Principle routes of exposure:** Skin

<b>Inhalation</b>	Poison - may be fatal if inhaled
<b>Ingestion</b>	May be fatal if swallowed
<b>Skin contact</b>	Contact causes skin irritation May be fatal if absorbed through skin
<b>Eye contact</b>	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, CO<sub>2</sub>, 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:**

<b>Health:</b>	3
<b>Flammability:</b>	0
<b>Reactivity:</b>	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 <sup>3</sup>
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.

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

**Components:** Thallium (I) Malonate/Formate

**California - Priority Toxic Pollutants:** Not listed

**California - Priority Toxic Pollutants:** Not listed

## 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