

## SAFETY DATA SHEET

Creation Date 22-September-2009

Revision Date 23-January-2018

Revision Number 4

### 1. Identification

**Product Name** Thallic acetate

**Cat No. :** AC420750000; AC420750050; AC420750250; AC420751000

**CAS-No** 2570-63-0  
**Synonyms** Acetic acid, thallium(III) salt

**Recommended Use** Laboratory chemicals.  
**Uses advised against** Not for food, drug, pesticide or biocidal product use

#### Details of the supplier of the safety data sheet

##### Company

##### **Importer/Distributor**

Fisher Scientific  
112 Colonnade Road,  
Ottawa, ON K2E 7L6,  
Canada  
Tel: 1-800-234-7437

Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

##### **Manufacturer**

Fisher Scientific  
One Reagent Lane  
Fair Lawn, NJ 07410  
Tel: (201) 796-7100

##### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11

Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99

**CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

### 2. Hazard(s) identification

#### Classification

##### **WHMIS 2015 Classification**

Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

|   |            |
|---|------------|
| <b>Acute oral toxicity</b>                                  | Category 2 |
| <b>Acute Inhalation Toxicity</b>                            | Category 2 |
| <b>Specific target organ toxicity - (repeated exposure)</b> | Category 2 |

#### Label Elements

##### **Signal Word**

Danger

##### **Hazard Statements**

Fatal if swallowed or if inhaled

May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements****Prevention**

Do not breathe dust/fumes/gas/mist/vapours/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Use only outdoors or in a well-ventilated area  
 Wear respiratory protection

**Response**

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 Immediately call a POISON CENTER/doctor  
 Rinse mouth

**Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Hazards**

Toxic to aquatic life with long lasting effects  
 Light sensitive

### 3. Composition/Information on Ingredients

| Component                      | CAS-No    | Weight % |
|--------------------------------|-----------|----------|
| Acetic acid, thallium(3+) salt | 2570-63-0 | 98       |

### 4. First-aid measures

|   |  |
|---|--|
| <b>Eye Contact</b>  | Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  |
| <b>Skin Contact</b>   | Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.  |
| <b>Inhalation</b>   | Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If not breathing, give artificial respiration. |
| <b>Ingestion</b>  | Do not induce vomiting. Call a physician or Poison Control Center immediately.   |
| <b>Most important symptoms/effects<br/>Notes to Physician</b> | No information available.<br>Treat symptomatically   |

### 5. Fire-fighting measures

|                                       |  |
|---------------------------------------|--|
| <b>Suitable Extinguishing Media</b>   | Water spray. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Chemical foam. |
| <b>Unsuitable Extinguishing Media</b> | No information available   |

**Flash Point Method -** No information available  
No information available

**Autoignition Temperature** Not applicable  
**Explosion Limits**  
**Upper** No data available  
**Lower** No data available  
**Sensitivity to Mechanical Impact** No information available  
**Sensitivity to Static Discharge** No information available

**Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products**

Highly toxic fumes

**Protective Equipment and Precautions for Firefighters**

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

**NFPA**

|                    |                          |                         |                                |
|--------------------|--------------------------|-------------------------|--------------------------------|
| <b>Health</b><br>4 | <b>Flammability</b><br>1 | <b>Instability</b><br>1 | <b>Physical hazards</b><br>N/A |
|--------------------|--------------------------|-------------------------|--------------------------------|

**6. Accidental release measures**

**Personal Precautions** Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.  
**Environmental Precautions** Do not flush into surface water or sanitary sewer system.

**Methods for Containment and Clean Up** Wear self-contained breathing apparatus and protective suit. Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

**7. Handling and storage**

**Handling** Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Use only in area provided with appropriate exhaust ventilation.

**Storage** Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from direct sunlight. Keep locked-up.

**8. Exposure controls / personal protection****Exposure Guidelines**

| Component                      | Alberta                            | British Columbia                    | Ontario TWAEV                       | Quebec                             | ACGIH TLV                           | OSHA PEL | NIOSH IDLH   |
|--------------------------------|------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|----------|--|
| Acetic acid, thallium(3+) salt | TWA: 0.1 mg/m <sup>3</sup><br>Skin | TWA: 0.02 mg/m <sup>3</sup><br>Skin | TWA: 0.02 mg/m <sup>3</sup><br>Skin | TWA: 0.1 mg/m <sup>3</sup><br>Skin | TWA: 0.02 mg/m <sup>3</sup><br>Skin | Skin     | IDLH: 15 mg/m <sup>3</sup><br>TWA: 0.1 mg/m <sup>3</sup> |

**Legend**

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

**Personal protective equipment**

|                        |                   |
|------------------------|-------------------|
| <b>Eye Protection</b>  | Goggles           |
| <b>Hand Protection</b> | Protective gloves |

| Glove material | Breakthrough time                 | Glove thickness | Glove comments         |
|----------------|-----------------------------------|-----------------|------------------------|
| Nitrile rubber | See manufacturers recommendations | -               | Splash protection only |
| Neoprene       |                                   |                 |                        |
| Natural rubber |                                   |                 |                        |
| PVC            |                                   |                 |                        |

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

**Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

**Recommended Filter type:** Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

**Environmental exposure controls**

Prevent product from entering drains. Do not allow material to contaminate ground water system.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

## 9. Physical and chemical properties

|   |                                  |
|---|----------------------------------|
| <b>Physical State</b>                         | Powder Solid                     |
| <b>Appearance</b>                             | Off-white                        |
| <b>Odor</b>                                   | Odorless                         |
| <b>Odor Threshold</b>                         | No information available         |
| <b>pH</b>                                     | No information available         |
| <b>Melting Point/Range</b>                    | 182 °C / 359.6 °F                |
| <b>Boiling Point/Range</b>                    | No information available         |
| <b>Flash Point</b>                            | No information available         |
| <b>Evaporation Rate</b>                       | Not applicable                   |
| <b>Flammability (solid,gas)</b>               | No information available         |
| <b>Flammability or explosive limits</b>       |                                  |
| <b>Upper</b>                                  | No data available                |
| <b>Lower</b>                                  | No data available                |
| <b>Vapor Pressure</b>                         | No information available         |
| <b>Vapor Density</b>                          | Not applicable                   |
| <b>Specific Gravity</b>                       | No information available         |
| <b>Solubility</b>                             | Decomposes in contact with water |
| <b>Partition coefficient; n-octanol/water</b> | No data available                |
| <b>Autoignition Temperature</b>               | Not applicable                   |
| <b>Decomposition Temperature</b>              | No information available         |
| <b>Viscosity</b>                              | Not applicable                   |
| <b>Molecular Formula</b>                      | C6 H9 O6 TI                      |
| <b>Molecular Weight</b>                       | 381.51                           |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactive Hazard</b>                  | None known, based on information available                      |
| <b>Stability</b>                        | Light sensitive.  |
| <b>Conditions to Avoid</b>              | Exposure to light. Incompatible products. Exposure to moisture. |
| <b>Incompatible Materials</b>           | Strong oxidizing agents, Strong acids                           |
| <b>Hazardous Decomposition Products</b> | Highly toxic fumes  |
| <b>Hazardous Polymerization</b>         | Hazardous polymerization does not occur.                        |
| <b>Hazardous Reactions</b>              | None under normal processing.                                   |

## 11. Toxicological information

### Acute Toxicity

#### Product Information

#### Component Information

**Toxicologically Synergistic Products** No information available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                        |  |
|------------------------|--|
| <b>Irritation</b>      | No information available   |
| <b>Sensitization</b>   | No information available   |
| <b>Carcinogenicity</b> | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Component                      | CAS-No    | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|--------------------------------|-----------|------------|------------|------------|------------|------------|
| Acetic acid, thallium(3+) salt | 2570-63-0 | Not listed | Not listed | Not listed | Not listed | Not listed |

|   |  |
|---|--|
| <b>Mutagenic Effects</b>                          | No information available                                       |
| <b>Reproductive Effects</b>                       | No information available.                                      |
| <b>Developmental Effects</b>                      | No information available.                                      |
| <b>Teratogenicity</b>                             | No information available.                                      |
| <b>STOT - single exposure</b>                     | None known   |
| <b>STOT - repeated exposure</b>                   | None known   |
| <b>Aspiration hazard</b>                          | No information available                                       |
| <b>Symptoms / effects, both acute and delayed</b> | No information available                                       |
| <b>Endocrine Disruptor Information</b>            | No information available                                       |
| <b>Other Adverse Effects</b>                      | The toxicological properties have not been fully investigated. |

## 12. Ecological information

### Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

|                                      |   |
|--------------------------------------|---|
| <b>Persistence and Degradability</b> | Persistence is unlikely based on information available. |
| <b>Bioaccumulation/ Accumulation</b> | No information available.                               |

**Mobility** Is not likely mobile in the environment.

### 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### 14. Transport information

#### DOT

**UN-No** UN1707  
**Proper Shipping Name** THALLIUM COMPOUND, N.O.S.  
**Hazard Class** 6.1  
**Packing Group** II

#### TDG

**UN-No** UN1707  
**Proper Shipping Name** THALLIUM COMPOUND, N.O.S.  
**Hazard Class** 6.1  
**Packing Group** II

#### IATA

**UN-No** UN1707  
**Proper Shipping Name** THALLIUM COMPOUND, N.O.S.  
**Hazard Class** 6.1  
**Packing Group** II

#### IMDG/IMO

**UN-No** UN1707  
**Proper Shipping Name** THALLIUM COMPOUND, N.O.S.  
**Hazard Class** 6.1  
**Packing Group** II

### 15. Regulatory information

#### International Inventories

| Component                      | DSL | NDSL | TSCA | EINECS    | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|--------------------------------|-----|------|------|-----------|--------|-----|-------|------|------|-------|------|
| Acetic acid, thallium(3+) salt | -   | X    | X    | 219-913-2 | -      |     | X     | X    | -    | -     | -    |

#### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

### 16. Other information

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**Revision Summary** This document has been updated to comply with the requirements of WHMIS 2015 to align with the Globally Harmonised System (GHS) for the Classification and Labelling of Chemicals.

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

**End of SDS**