

# Safety Data Sheet

## 50mM Thallium Sulfate



### SECTION 1: Identification of the Substances and the Company/Undertaking

#### Identification of the Substance or Mixture

**Product Name:** 50mM Thallium Sulfate **Catalog Numbers:** 7040S

#### Company/Undertaking Identification

Ion Biosciences  
3055 Hunter Road, Box 3  
San Marcos, TX 78666  
+1 512.957.9123

#### 24 hour Emergency Response

866.536.0631  
301.431.8585  
+1 301.431.8585 (Outside the U.S.)  
For Research Use Only. Not for use in diagnostic procedures.

### SECTION 2: Hazards Identification

#### GHS - Classification

**Signal word:** DANGER

**Health Hazards:** Acute oral toxicity (Category 4), skin corrosion/irritation (Category 3), Specific target organ systemic toxicity (repeated exposure) (Category 1)

**Hazard statements:** H302 - Harmful if swallowed, H316 - Causes mild skin irritation, H372 - Causes damage to organs through prolonged or repeated exposure, H412 - Harmful to aquatic life with long lasting effects

#### Precautionary Statements

**Prevention:** P260 - Do not breathe dust/fume/gas/mist/vapors/spray, P264 - Wash hands thoroughly after handling, P270 - Do not eat, drink or smoke when using this product, P273 - Avoid release to the environment

**Response:** P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician, P314 - Get medical advice/attention if you feel unwell, P330 - Rinse mouth, P332 + P313 - If skin irritation occurs: Get medical advice/attention

**Storage:** Not applicable.

**Disposal:** P501 - Dispose of contents/ container to an approved waste disposal plant

#### Potential Health Effects

**Eyes:** May cause eye irritation with susceptible persons.

**Skin:** Irritating to skin.

**Inhalation:** Harmful by inhalation.

**Ingestion:** Harmful if swallowed.

#### Specific Effects

**Carcinogenic effects:** None.

**Mutagenic effects:** None.

**Reproductive toxicity:** None.

**Sensitization:** None.

**Target organ effects:** No information available.

#### HMIS

|              |                   |
|--------------|-------------------|
| Health       | 4 *Chronic Hazard |
| Flammability | 0                 |
| Reactivity   | 0                 |

### SECTION 3: Composition/Information on Ingredients

Handle all chemicals with caution.

| Component        | CAS-No    | EINECS-No | Weight% |
|------------------|-----------|-----------|---------|
| Thallous sulfate | 7446-18-6 | 231-138-1 | 1-5     |
|                  |           | 231-201-3 |         |

### SECTION 4: First Aid Measures

**Skin contact:** Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

**Ingestion:** Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.

**Inhalation:** Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

**Most important symptoms and effects, both acute and delayed:** H302 - Harmful if swallowed, H316 - Causes mild skin irritation, H372 - Causes damage to organs through prolonged or repeated exposure, H412 - Harmful to aquatic life with long lasting effects.

**Notes to physician:** Treat symptomatically.

## SECTION 5: Firefighting Measures

### Extinguishing Media

**Suitable extinguishing media:** Water spray. Dry chemical. Carbon Dioxide (CO<sub>2</sub>) Foam.

**Unsuitable extinguishing media:** Do not use water jet.

**Specific hazards arising from the chemical:** Not known.

**Advice for firefighters:** Wear self-contained breathing apparatus and protective suit.

## SECTION 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. See Section 8 for more detail.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system.

**Methods and material for containment and cleaning up:** Soak up with inert absorbent material and dispose of as hazardous waste.

**Reference to other sections:** See section 8 and 12 for more information.

## SECTION 7: Handling and Storage

**Handling:** Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

**Conditions for safe storage, including any incompatibilities:** Keep in a dry, cool and well-ventilated place.

**Specific end use(s):** For research use only.

## SECTION 8: Exposure Controls/Personal Protection

### Control Parameters

#### Exposure limits:

| OSHA PEL              | OSHA PEL<br>(Ceiling) | ACGIH OEL<br>(TWA)    | ACGIH OEL<br>(STEL) |
|-----------------------|-----------------------|-----------------------|---------------------|
| 0.1 mg/m <sup>3</sup> | None                  | 0.02mg/m <sup>3</sup> | None                |

**Engineering measures:** Ensure adequate ventilation, especially in confined areas.

### Exposure Controls

**Personal Protective Equipment:** Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection:** Impervious gloves.

**Eye protection:** Wear safety glasses with side shields (or goggles).

**Skin and body protection:** Lightweight protective clothing.

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

**Environmental exposure controls:** Do not allow material to contaminate ground water system. Prevent product from entering drains or waterways whenever possible.

## SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties.

**Form:** Liquid.

**Appearance:** Clear colorless solution.

**Odor:** No data available.

**Odor threshold:** No data available.

**Boiling point/boiling range:** °C No data available; °F No data available.

**Melting point/melting range:** °C No data available; °F No data available.

**Flash point:** °C No data available; °F No data available.

**Autoignition temperature:** °C No data available; °F No data available.

**Evaporation rate:** No data available.

**Flammability (solid, gas):** No data available.

**Oxidizing properties:** No data available.

**Partition coefficient (n-octanol/water):** No data available.

**Water solubility:** No data available.

**pH:** 6-8

## SECTION 10: Stability and Reactivity

**Reactivity:** None known.

**Stability:** Stable under normal conditions.

**Materials to avoid:** No dangerous reaction known under conditions of normal use.

**Possibility of hazardous reactions:** Hazardous reaction has not been reported.

**Hazardous decomposition products:** None under normal use conditions.

**Polymerization:** Hazardous polymerization does not occur.

**Conditions to avoid:** None under normal processing.

**Hazardous decomposition products:** No hazardous decomposition products produced under conditions of normal use.

## SECTION 11: Toxicological Information

### Acute Toxicity:

| Chemical Name    | LD50 (oral, rat/mouse) | LD50 (dermal, rat/rabbit) | LC50 (inhalation, rat/mouse) |
|------------------|------------------------|---------------------------|------------------------------|
| Thallous sulfate | 16mg/kg                | 550mg/kg                  | No data                      |

**Skin:** Irritating to skin.

**Inhalation:** Harmful by inhalation.

**Ingestion:** Harmful if swallowed.

**Carcinogenic effects:** None.

**Mutagenic effects:** None.

**Reproductive toxicity:** None.

**Sensitization:** None.

### Principle Routes of Exposure

### Potential Health Effects

**Eyes:** May cause eye irritation with susceptible persons.

## SECTION 12: Ecological Information

**Ecotoxicity:** The environmental impact of this product has not been fully investigated.

**Chronic aquatic toxicity:** Category 3

**Mobility:** No information available.

**Biodegradation:** Inherently biodegradable.

**Bioaccumulation:** Does not bioaccumulate.

## SECTION 13: Disposal Considerations

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**Waste treatment methods:** The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique.

Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

## SECTION 14: Transport Information

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**IATA/ADR/DOT-US/IMDG:** Not Classified as dangerous in the meaning of transport regulations.

**Proper shipping name:** No dangerous good in sense of these transport regulations.

**Hazard class:** None.

**Subsidiary class:** None.

**Packing group:** None.

**UN-No:** None.

**Environmental hazards:** None.

## SECTION 15: Regulatory Information

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### US Federal Regulations

**SARA 313:** This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers:

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61):** This product does not contain HAPs.

| Chemical Name    | CAS- No   | Weight % | Sara 313—Threshold Values |
|------------------|-----------|----------|---------------------------|
| Thallous sulfate | 7446-18-6 | 1-5      | 1.0                       |

### US State Regulations

**California Proposition 65:** This product does not contain any Proposition 65 chemicals.

**WHMIS Hazard Class:** D2B—Toxic materials

## SECTION 16: Other Information

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For Research Use Only. Not for use in diagnostic procedures.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

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