



# Material Safety Data Sheet

Revision date: 05-Dec-2005

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Catalog Number:** 222128  
**Product name:** THALLIUM SELENIDE

**Supplier:** MP Biomedicals, LLC  
Parc d'Innovation  
BP 50067  
67402 ILLKIRCH CEDEX  
France

**Emergency telephone number:** "n° ORFILA" (01-45-42-59-59)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Components        | CAS Number | Weight % | EC No. | Classification | Notes | Annex No.: |
|-------------------|------------|----------|--------|----------------|-------|------------|
| THALLIUM SELENIDE | N/A        | > 25%    | --     | --             | --    | --         |

## 3. HAZARDS IDENTIFICATION

### Indication of Danger:

No declaration according to 67/548/EWG

## 4. FIRST AID MEASURES

**General advice:** 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:** Rinse immediately with plenty of water and seek medical advice

**Ingestion:** Do not induce vomiting without medical advice.

**Eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam

**Specific hazards:** Burning produces irritant fumes.

**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

**Flash point:** Not determined

**Autoignition temperature:** Not determined

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use personal protective equipment.

**Environmental precautions:** Prevent product from entering drains.

**Methods for cleaning up:** Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

**Storage:**  
ROOM TEMPERATURE

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

**Safe handling advice:** Wear personal protective equipment.

**Incompatible products:** Oxidising and spontaneously flammable products

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation.

**Respiratory protection:** Breathing apparatus needed only when aerosol, vapor or dust is formed.

**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

**Hand protection:** Gloves

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                  |                                 |
|----------------------------------|---------------------------------|
| <b>Formula:</b>                  | SeTl <sub>2</sub>               |
| <b>Molecular weight:</b>         | 487.726                         |
| <b>Melting point/range:</b>      | No data available at this time. |
| <b>Boiling point/range:</b>      | No Data available at this time. |
| <b>Density:</b>                  | No data available               |
| <b>Vapor pressure:</b>           | No data available               |
| <b>Evaporation rate:</b>         | No data available               |
| <b>Vapor density:</b>            | No data available               |
| <b>Solubility (in water):</b>    | No data available               |
| <b>Flash point:</b>              | Not determined                  |
| <b>Autoignition temperature:</b> | Not determined                  |

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.

**Polymerization:** None under normal processing.

**Hazardous decomposition products:** Selenium (Se) , Thallium (Tl)

**Materials to avoid:** Strong oxidising agents

**Conditions to avoid:**

Exposure to air or moisture over prolonged periods.

**11. TOXICOLOGICAL INFORMATION****Product Information****Acute toxicity**

| Components        | RTECS Number: | Selected LD50s and LC50s |
|-------------------|---------------|--------------------------|
| THALLIUM SELENIDE | Not Available | 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        | U.S. DOT - Appendix B - Marine Pollutan | U.S. DOT - Appendix B - Severe Marine Pollutants | United Kingdom - The Red List: |
|-------------------|---|--|--------------------------------|
| THALLIUM SELENIDE | Not Listed                              | Not Listed                                       | Not Listed                     |

| Components        | Germany VCI (WGK) | World Health Organization (WHO) - Drinking Water | Ecotoxicity - Fish Species Data |
|-------------------|-------------------|--|---------------------------------|
| THALLIUM SELENIDE | Not Listed        | Not Listed                                       | Not Listed                      |

| Components        | Ecotoxicity - Freshwater Algae Data | Ecotoxicity - Microtox Data | Ecotoxicity - Water Flea Data |
|-------------------|-------------------------------------|-----------------------------|-------------------------------|
| THALLIUM SELENIDE | Not Listed                          | Not Listed                  | Not Listed                    |

| Components        | EPA - ATSDR Priority List | EPA - HPV Challenge Program Chemical List | California - Priority Toxic Pollutants |
|-------------------|---------------------------|---|--|
| THALLIUM SELENIDE | Not Listed                | Not Listed                                | Not Listed                             |

| Components        | California - Priority Toxic Pollutants | California - Priority Toxic Pollutants |
|-------------------|--|--|
| THALLIUM SELENIDE | Not Listed                             | 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

## 14. TRANSPORT INFORMATION

UN/Id No:

Not a dangerous good.

ADR/RID

Proper shipping name:

Not Regulated

IMDG/IMO

Proper shipping name:

Not Regulated

ICAO/IATA

Proper shipping name:

Not Regulated

## 15. REGULATORY INFORMATION

**Indication of Danger:**

No declaration according to 67/548/EWG

| Components        | EU EINECS List - | Germany TA-Luft List -<br>Section | Germany VCI (WGK) | Switzerland Giftliste: |
|-------------------|------------------|-----------------------------------|-------------------|------------------------|
| THALLIUM SELENIDE | Not Present      | Not Listed                        | Not Listed        | Not Listed             |

**Classification according to VbF:** -

## 16. OTHER INFORMATION

**Prepared by:** Health & Safety

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**End of Safety Data Sheet**