

PAGE #:1 OF 6	PRODUCT MATERIAL SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:1 REV Date : 04/19/19
DOCUMENT #: F/RPI/QC 7.7.3-02-00	PRODUCT NAME: Thallium Acetate		RPI ITEM NO: T13000

## SECTION 1 - CHEMICAL IDENTIFICATION

PRODUCT NAME: Thallium Acetate (Thallium (I) acetate; Acetic acid, Thallium (I) salt)  
 RPI CATALOG #: T13000  
 SUPPLIER'S NAME: Research Products International Corp.  
 SUPPLIERS ADDRESS: 410 N Business Center Drive Mount Prospect, IL 60056  
 EMERGENCY CONTACT: 1-800-424-9300  
 OTHER INFORMATION: 847-635-7330

## SECTION 2 - HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H300	Acute toxicity, oral	Category 2
H310	Acute toxicity.	Category 2
H330	Acute toxicity, Inhalation.	Category 2
H373	Specific target organ toxicity - repeated exposure	Category 2

### 2.2 GHS Label elements, including Hazard and Precautionary Statement(s) Pictogram



Signal word: **Danger**

#### Hazard statement(s)

H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H373	May cause genetic defects

#### Prevention, Response, Storage and Disposal Precautionary Statement(s)

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection
P301 + P310	IF SWALLOWED: Call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.

PAGE #:2 OF 6	PRODUCT MATERIAL SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:1 REV Date : 04/19/19
DOCUMENT #: F/RPI/QC 7.7.3-02-00	PRODUCT NAME: Thallium Acetate		RPI ITEM NO: T13000

P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor/physician.
P314	Get medical advice/attention if you feel unwell.
P320	Specific treatment is urgent (see on this label).
P321	Specific treatment (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P361 + P364	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

### **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

CAS Number: 563-68-8  
EINECS Number: 209-257-5  
Molecular Weight: 263.42 g/mol  
Formula: C<sub>2</sub>H<sub>3</sub>O<sub>2</sub>TI

### **SECTION 4 - FIRST-AID MEASURES**

#### **4.1 Description of first aid measures**

**General advice:** Consult a doctor and show this safety data sheet.

**If inhaled:** Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

**In case of skin contact:** Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

**In case of eye contact:** Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

**If swallowed:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

**4.2 Most important symptoms and effects, both acute and delayed:** To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**4.3 Indication of immediate medical attention and special treatment needed:** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

### **SECTION 5 - FIRE FIGHTING MEASURES**

#### **5.1 Extinguishing media**

**Suitable extinguishing media:** Dry powder.

**5.2 Special hazards arising from the substance or mixture:** Carbon Oxides, Thallium Oxides.

**5.3 Precautions for fire-fighters:** Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

PAGE #:3 OF 6	PRODUCT MATERIAL SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:1 REV Date : 04/19/19
DOCUMENT #: F/RPI/QC 7.7.3-02-00	PRODUCT NAME: Thallium Acetate		RPI ITEM NO: T13000

**5.4 Further information:** no data available

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures:** Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

**6.2 Environmental precautions:** Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up:** Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

**6.4 Reference to other sections:** For required PPE see section 8. For disposal see section 13.

## **SECTION 7 - HANDLING AND STORAGE**

### **7.1 Precautions for safe handling:**

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

**7.2 Conditions for safe storage, including any incompatibilities:** Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Hygroscopic: Keep in a dry place. Store at room temperature.

**7.3 Specific end use(s):** Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

## **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters**

#### **Components with workplace control parameters**

<b>Component</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>NIOSH IDLH</b>
Thallium(I) acetate	TWA: 0.02 mg/m <sup>3</sup> Skin	Skin	Skin IDLH: 15 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>
<b>Component</b>	<b>Quebec</b>	<b>Mexico OEL (TWA)</b>	<b>Ontario TWAEV</b>
Thallium(I) acetate	TWA: 0.1 mg/m <sup>3</sup> Skin	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup> Skin

- ❖ **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.

### **8.2 Exposure Controls**

**Appropriate engineering controls:** Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

### **8.3 Personal protective equipment**

**Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

PAGE #:4 OF 6	PRODUCT MATERIAL SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:1 REV Date : 04/19/19
DOCUMENT #: F/RPI/QC 7.7.3-02-00	PRODUCT NAME: Thallium Acetate		RPI ITEM NO: T13000

**Skin protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

**Body Protection:** Wear appropriate protective clothing. Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Control of environmental exposure:** Do not let product enter drains

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

#### **Information on basic physical and chemical properties**

<b>Appearance</b>	Off White Solid	<b>Vapor Pressure</b>	No Data Available
<b>Odor</b>	Odorless	<b>Vapor Density</b>	No Data Available
<b>Odor Threshold</b>	No Data Available	<b>Relative Density</b>	No Data Available
<b>pH</b>	No Data Available	<b>Water Solubility</b>	No Data Available
<b>Melting / Freezing Point</b>	128 - 130 °C	<b>Partition Coefficient</b>	No Data Available
<b>Initial Boiling Point Range</b>	No Data Available	<b>Auto-Ignition Temperature</b>	No Data Available
<b>Flash Point</b>	No Data Available	<b>Decomposition Temperature</b>	No Data Available
<b>Evaporation Rate</b>	No Data Available	<b>Specific Gravity</b>	3.77
<b>Flammability (Solid, Gas)</b>	No Data Available	<b>Explosive Properties</b>	No Data Available
<b>Upper / Lower Flammability Or Explosive Limits</b>	No Data Available	<b>Oxidizing Properties</b>	No Data Available

### **SECTION 10 - STABILITY AND REACTIVITY**

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

**Conditions to Avoid:** Heat, Moisture, Water, Oxidizing Agent.

**Incompatible Materials:** Strong oxidizing agents, Strong acids

**Hazardous Decomposition Products:** Carbon monoxide (CO), Carbon dioxide (CO2).

### **SECTION 11 - TOXICOLOGICAL INFORMATION**

#### **Acute Toxicity**

<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LD50 Inhalation</b>
41.3 mg/kg (Rat)	No Data Available	No Data Available

### **SECTION 12 - ECOLOGICAL INFORMATION**

Ecotoxicity: Toxicity to fish LC50 - Menidia beryllina - 31 mg/l - 96 h

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: No data available

Other adverse effects: May be harmful to the aquatic environment.

<b>PAGE #:5 OF 6</b>	<b>PRODUCT MATERIAL SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL</b>	<b>ISSUE DATE: 12/15/14</b>	<b>REV.:1 REV Date : 04/19/19</b>
<b>DOCUMENT #: F/RPI/QC 7.7.3-02-00</b>	<b>PRODUCT NAME: Thallium Acetate</b>		<b>RPI ITEM NO: T13000</b>

**Chronic Toxicity:** There are no known carcinogenic chemicals in this product

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

<b>Component</b>	<b>RCRA - U Series Wastes</b>	<b>RCRA - P Series Wastes</b>
Thallium(I) acetate - 563-68-8	U214	-

**SECTION 14 - TRANSPORT INFORMATION**

	<b>UN#</b>	<b>Proper Shipping Name</b>	<b>Hazard Class</b>	<b>Packaging Group</b>
<b>DOT</b>	1707	Thallium Compounds, N.O.S. (Thallium Acetate)	6.1	II
<b>TDG</b>	1707	Thallium Compounds, N.O.S. (Thallium Acetate)	6.1	II
<b>IATA</b>	1707	Thallium Compounds, N.O.S. (Thallium Acetate)	6.1	II
<b>IMDG/IMO</b>	1707	Thallium Compounds, N.O.S. (Thallium Acetate)	6.1	II

**SECTION 15 - REGULATORY INFORMATION**

**INTERNATIONAL INVENTORIES**

<b>TSCA</b>	<b>DSL</b>	<b>NDSL</b>	<b>ELINCS</b>	<b>NLP</b>	<b>PICCS</b>	<b>ENCS</b>	<b>AICS</b>	<b>CHINA</b>	<b>KECL</b>
Listed	Listed	-	-	-	Listed	Listed	Listed	Listed	Listed

**USA FEDERAL REGULATION  
SARA 311/312 HAZARDOUS CATEGORIZATION**

<b>Acute Health Hazard</b>	<b>Chronic Health Hazard</b>	<b>Fire Hazard</b>	<b>Sudden Release Of Pressure Hazard</b>	<b>Reactive Hazard</b>
Yes	Yes	No	No	No

**SARA 313**

<b>Component</b>	<b>CAS#</b>	<b>Weight %</b>	<b>SARA 313 - Threshold Values %</b>
Thallium(I) acetate	563-68-8	99	1.0

PAGE #:6 OF 6	PRODUCT MATERIAL SAFETY DATA SHEET RESEARCH PRODUCTS INTERNATIONAL	ISSUE DATE: 12/15/14	REV.:1 REV Date : 04/19/19
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**Clean Water Act**

Component	CWA - Toxic Pollutant	CWA – Reportable Quantities
Thallium(I) acetate	Listed	-

**Clean Air Act:** Not Applicable.

**TSCA 12(b):** Not Applicable

**OSHA:** Not Applicable

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

**CERCLA:** This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Thallium(I) acetate	100 lb	-

**HMIS Rating**

Health hazard	Chronic Health Hazard	Flammability	Physical Hazard
4	*	0	0

**NFPA Rating**

Health Hazard	Fire Hazard	Reactivity Hazard
4	0	0

**STATE RIGHT TO KNOW**

Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Listed	Listed	Listed	-	Listed

**US DEPARTMENT OF TRANSPORTATION**

REPORTABLE QUANTITY (RQ)	DOT MARINE POLLUTANT	DOT SEVER MARINE POLLUTANT
Yes	No	No

**U.S. DEPARTMENT OF HOMELAND SECURITY:** This product does not contain any DHS chemicals.

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

**This SDS complies with the requirements of Regulation (EC).**

**SECTION 16 - OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Research Products International Corp. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. This product is sold for laboratory research and development purposes use only.