



An ISO 9001 : 2008 Certified Manufacturing Co.

**Infinium  
Pharmachem  
Pvt. Ltd.**

**Corporate Office Address**

Suite # 205, Sigma Prime, Second Floor Nr. Sardar Patel Statue  
Vallabh Vidyanagar, Dist. Anand - 388 121 Gujarat, India.

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Email: info@infiniumpharmachem.com infinium\_11@yahoo.com

Web : www.infiniumpharmachem.com

**R.O. & Factory Address:-**

Plot No.38 - 39 GIDC Sojitra - 387240 Dist. Anand

Gujarat - India Tel / Fax : ++91-2697- 234987

## A MATERIAL SAFETY DATA SHEET

### Thalium Iodide

#### 1.1 Product Identifiers:

#### 1.2

**Product Name** : **Thalium Iodide**

**CAS No** : 7790-30-9

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

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

**Supplier:** Infinium Pharmachem Pvt. Ltd. (AN ISO 9001:2008 CERTIFIEDCO.)  
38, G.I.D.C, Sojitra

Dist: ANAND

Gujarat, India

**Tel** : 0091-2697-234987

**Fax** : 0091-2697-234987

**Email** : [info@infiniumpharmachem.com](mailto:info@infiniumpharmachem.com)

**Synonyms** : THALLOUS IODIDE; THALLIUM (OUS)  
IODIDE; THALLIUM(I) IODIDE; THALLIUM (I)  
IODIDIE; THALLIUM IODIDE; THALLIUM IODIDE  
(OUS); Thallium iodide (TI2I2); Thallium iodide (TII)

**CAS No.** : 7790-30-9

**Molecular Weight** : 331,29 g/mol



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**Chemical Formula** : ITI

### 3.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Inhalation (Category 2), H330

Acute toxicity, Oral (Category 2), H300

Specific target organ toxicity - repeated exposure (Category 2), H373

Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

T+ Very toxic R26/28 R33

N Dangerous for the environment R51/53

For the full text of the R-phrases mentioned in this Section, see Section 16.

### 3.2 Label elements

#### Labeling according Regulation (EC) No 1272/2008



Pictogram

Signal word Danger

#### Hazard statement(s)

H300 Fatal if swallowed.

H330 Fatal if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.



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### Precautionary statement(s)

P 260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P 264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P 280	Wear protective gloves.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P310	Immediately call a POISON CENTER or doctor/ physician.
Supplemental Hazard	none

Statements

### 3.3 Other hazards- None

### 4.1 Description of first aid measures

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most Important symptoms & efforts, both acute and delayed



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The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### **4.3 Indication of any immediate medical attention and special treatment needed**

No data available

#### **5.1 Extinguishing Media:**

##### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **5.2 Special hazards arising from the substance or mixture**

Hydrogen iodide, thallium oxides.

#### **5.3 Advice for firefighters**

Wear self contained breathing apparatus for fighting if necessary.

#### **5.4 Further Information**

No data available.

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### **6.3 Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### **6.4 Reference to other sections**

For disposal see section 13.



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### **7.1 Precautions for safe Handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.  
Provide appropriate exhaust ventilation at places where dust is formed.  
For precautions see section 2.2.

### **7.2 Conditions for safe Storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

light sensitive.

### **7.3 Specific end uses**

no data available

## **8.1 Control parameters**

### **Components with workplace control Parameters.**

### **8.2 Exposure Controls**

#### **Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### **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).

##### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### **Body Protection**



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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

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 9.1 Information on Basic physical & chemical properties

a) Appearance	<b>Form: powder</b>
	<b>Colour: yellow</b>
b) Odor	<b>no data available</b>
c) Odor Threshold	<b>no data available</b>
d) pH	<b>no data available</b>
e) Melting point/freezing Point	<b>Melting point/range: 440 °C - lit.</b>
f) Initial boiling point and	<b>no data available</b>
g) Flash point	<b>no data available</b>
h) Evaporation rate	<b>no data available</b>
i) Flammability (solid, gas)	<b>no data available</b>
j) Upper/lower Flammability or explosive limits	<b>no data available</b>
k) Vapor pressure	<b>no data available</b>
l) Vapor density	<b>no data available</b>
m) Relative density	<b>7,29 g/cm<sup>3</sup> at 25 °C</b>
n) Water solubility	<b>no data available</b>
o) Partition coefficient: n-octanol /water	<b>no data available</b>
p) Auto ignition Temperature	<b>no data available</b>
q) Decomposition Temperature	<b>no data available</b>
r) Viscosity	<b>no data available</b>
s) Explosive properties	<b>no data available</b>



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#### t) Oxidizing properties

no data available

#### 9.2 Other safety Information

No data available

#### 10.1 Reactivity

no data available

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

no data available

#### 10.4 Conditions to avoid

Avoid moisture

#### 10.5 Incompatible materials

Strong oxidizing agents

#### 10.6 Hazardous decomposition products

In the event of fire: see section 5

#### 11.1 Information on toxicological effects

##### Acute toxicity

LD50 Oral - rat – 24,1 mg/kg

##### Skin corrosion/irritation

no data available.

##### Serious eye damage/eye irritation

no data available

##### Respiratory or skin sensitization

no data available

##### Germ cell mutagenicity



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no data available

#### **Carcinogenicity**

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **Reproductive toxicity**

no data available

#### **Specific target organ toxicity - single exposure**

no data available

#### **Specific target organ toxicity - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

#### **Aspiration hazard**

no data available

#### **Additional Information**

RTECS: not available

Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration., The most characteristic symptom of thallium exposure is alopecia (loss of hair). Cutaneous effects may include dry, scaly skin and impairment of nail growth often resulting in the appearance of crescent-shaped strips across fingernails and toenails (Mees' line). Other symptoms in acute poisoning relate chiefly to the gastrointestinal tract, nervous system, skin, eyes, and cardiovascular system. Acute poisoning results in swelling of the feet and legs, arthralgia, vomiting, insomnia, hyperesthesia and paresthesia of the hands and feet, mental confusion, polyneuritis with severe pain in the legs and loins, partial paralysis of the legs, angina-like pains, nephritis, wasting and weakness, and lymphocytosis and eosinophilia. In chronic poisoning, central and peripheral nervous system abnormalities may persist including ataxia, tremor, incoordination, paralysis of extremities, endocrine disorders, memory loss, and psychoses may develop.

#### **12.1 Toxicity**

No data available



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### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

Toxic to aquatic life with long lasting effects.

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### 14.1 UN number

ADR/RID: - 1707

IMDG: - 1707

IATA: - 1707

### 14.2 UN proper shipping name

ADR/RID : THALLIUM COMPOUND, N.O.S. (Thallium iodide)

IMDG : THALLIUM COMPOUND, N.O.S. (Thallium iodide)

IATA : Thallium compound, n.o.s. (Thallium iodide)

### 14.3 Transport hazard class (es)

ADR/RID: 6.1

IMDG: 6.1

IATA: 6.1

### 14.4 Packaging group



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ADR/RID: - II

IMDG: - II

IATA:- II

**14.5 Environmental hazards**

ADR/RID: yes

IMDG Marine pollutant: yes

IATA: no

**14.6 Special precautions for user**

no data available

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

no data available

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

**MSDS Creation Date:** 01-01-2015

**Revision #1 Date:** 31-12-2017

**Disclaimer:**

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