



An ISO 9001 : 2008 Certified Manufacturing Co.

**Infinium  
Pharmachem  
Pvt. Ltd.**

#### Corporate Office Address

Suite # 205, Sigma Prime, Second Floor Nr. Sardar Patel Statue  
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Web : [www.infiniumpharmachem.com](http://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

### CESIUM IODIDE

#### 1.1 Product Identifiers:

**Product Name** : Cesium iodide

**CAS No** : 7789-17-5

#### 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 CERTIFIED CO.)  
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** : Cesium monoiodide; cesium iodide (csi); cesium monoiodide; Dicesium diiodide; dicesium diiodide; Tricesium triiodide; tricesium triiodide; CESIUM IODIDE; CESIUM IODINE; Cesium iodide (99% Cs);

**CAS No.** : 7789-17-5



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**Molecular Weight** : 259,81 g/mol

**Chemical Formula** : CsI

### 3.1 Classification of the substance or mixture

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

Skin irritation (Category 2)

Eye irritation (Category 2)

Skin sensitization (Category 1)

Specific target organ toxicity - single exposure (Category 3).

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

Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.

### 3.2 Label elements

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



Pictogram

Signal word : Warning

Hazard statement(s)

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation..

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing..



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Supplemental Hazard none

Statements

**According to European Directive 67/548/EEC as amended.**



Hazard symbol(s)

R-phrase(s)

R36/37/38

Irritating to eyes, respiratory system and skin.

R43

May cause sensitization by skin contact.

S-phrase(s)

S36/37

Wear suitable protective clothing and gloves.

S22

Do not breathe dust.

S45

In case of accident or if you feel unwell, seek medical advice immediately

(show the label where possible).

**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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

#### **4.2 Most important symptoms and effects, both acute and delayed**



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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., Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### 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, Cesium/cesium oxides

#### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4 Further Information

no data available

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 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



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For disposal see section 13.

#### 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.

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

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

#### 7.3 Specific end uses

no data available

### 8.1 Control parameters

#### Components with workplace control Parameters.

#### 8.2 Exposure Controls

##### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

##### 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

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### 9.1 Information on Basic physical & chemical properties

a) Appearance	<b>Form: solid</b>
	<b>Colour: white</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: 626 °C - lit.</b>
f) Initial boiling point and Boiling range	<b>1.280 °C at 1.013 hPa</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>4,51 g/cm<sup>3</sup> at 25 °C</b>
n) Water solubility	<b>soluble</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>
t) Oxidizing properties	<b>no data available</b>

### 9.2 Other safety Information

no data available

### 10.1 Reactivity



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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

Other decomposition products - No data available

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - rat - 2.386 mg/kg

Inhalation: no data available

#### Skin corrosion/irritation

no data available.

#### Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitization

May cause allergic skin reaction

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

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

#### Reproductive toxicity



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no data available

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

Inhalation - May cause respiratory irritation.

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

May cause damage to organs through prolonged or repeated exposure.

#### **Aspiration hazard**

No data available

#### **Potential health effects**

Inhalation  
irritation. May be harmful if inhaled. Causes respiratory tract

Ingestion May be harmful if swallowed.

Skin  
irritation. May be harmful if absorbed through skin. Causes skin

Eyes Causes serious eye irritation.

#### **Signs and Symptoms of Exposure**

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., Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **Additional Information**

RTECS: FL0350000

#### **12.1 Persistence and degradability**

##### **12.1 Toxicity**

no data available

#### **12.2 Persistence and degradability**

no data available





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### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

no data available

### 12.6 Other adverse effects

no data available

### 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: -

IMDG: -

IATA: -

### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### 14.3 Transport hazard class (es)

ADR/RID: -

IMDG: -

IATA: -

### 14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -



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#### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

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

no data available

#### Full text of H-Statements referred to under sections 2 and 3.

no data available

#### Full text of R-phrases referred to under sections 2 and 3

no data available

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

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

#### Disclaimer:

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