

MATERIAL SAFETY DATA SHEET**Product Name:** Cesium iodide**CAS No.:** 7789-17-5**Version:** 0**1. Identification**

Product Code : 92387
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2. Hazards Identification

Hazard classification
Skin irritation : Category 2
Eye irritation : Category 2
Skin sensitization : Category 1
Specific target organ toxicity -
single exposure : Category 3
Label elements
Hazard symbol



Signal word : Warning
Hazard statement : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause respiratory irritation.
Precautionary statement : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Wear protective gloves.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue
rinsing.
Other hazards which do not result : None
in GHS classification

3. Composition/information on ingredients

Ingredient	CAS No	Percent
Cesium iodide	7789-17-5	NLT-99.0%

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Description of first aid measures

- General advice : Consult a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin contact : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
- Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Swallowed : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- Most important symptoms and effects, both acute and delayed : 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.
- Indication of any immediate medical attention and special treatment needed Treatment : No data available

5. Fire fighting measures

- Extinguishing media
- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Special hazards arising from the substance or mixture : Hydrogen iodide, Cesium/cesium oxides
- Advice for firefighters : Wear self contained breathing apparatus for fire fighting if necessary
- Further information : No data available

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- 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.
- Environmental precautions : Do not let product enter drains.
- 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.
- Reference to other sections : For disposal see section 13.

7. Handling and Storage

- 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.
- Conditions for safe storage, including any incompatibilities : Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic
- Specific end use(s) : No data available

8. Exposure Controls Personal Protection

- Control parameters
Components with workplace control parameters
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 Hand 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.
- Body Protection : 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 : Respiratory protection is required.

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Appearance	: White powder
Odor	: No data available
pH	: No data available
Melting point/freezing point	: 626 °C
Initial boiling point and boiling range	: 1.280 °C at 1.013 hPa
Flash Point	: No data available
Vapor pressure	: No data available
Vapor density	: No data available
Relative density	: 4.51 g/cm ³ at 25 °C
Solubility in water	: Soluble
Solubility (other)	: No data available
Formula	: CsI
Molecular Weight	: 259.81 g/mol

10. Stability and Reactivity

Reactivity	: No data available
Chemical stability	: No data available
Possibility of hazardous reactions	: No data available
Conditions to avoid	: Avoid moisture
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: No data available

11. Toxicological Information

Information on toxicological effects

Acute toxicity	: LD50 Oral - rat - 2.386 mg/kg
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	: No data available
Specific target organ toxicity -	: Inhalation - May cause respiratory irritation.

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single exposure

Specific target organ toxicity - repeated exposure : No data available

Aspiration hazard : No data available

Potential health effects

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

Ingestion : May be harmful if swallowed.

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

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.

12. Ecological Information

Toxicity : No data available

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available

Other adverse effects : No data available

13. Disposal consideration

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated packaging : Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

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	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT			Not dangerous goods		
IMDG			Not dangerous goods		
IATA			Not dangerous goods		

15. Regulatory Information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information

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