# SAFETY DATA SHEET

**Date Printed:** 03/29/2024
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## SECTION 1. IDENTIFICATION

**Product Identifier:** (3N) 99.9% Cesium Iodide Sputtering Target

**Product Code:** CS-I-03-ST

**CAS Number:** 7789-17-5

**Relevant identified uses of the substance:** Scientific research and development

Supplier details:

American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351
Emergency telephone number:
+1 800-424-9300

## SECTION 2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE
If swallowed can cause nausea, vomiting, stomach pains and diarrhoea. Particular care must be exercised when machining and creating dust or particles.
2.2. LABEL ELEMENTS



Signal Word: Warning
H303 May be harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
Precautionary Statements:
P264 Wash thoroughly after handling.
P301+P310 IF SWALLOWED: Immediately call a poison centre or doctor. Rinse mouth.
2.3. OTHER HAZARDS
None

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES
Component Name, CAS number, %, EC number (EINECS), EU index, UN number
Caesium Iodide, 7789-17-5, 100%, 232-145-2, Not Listed, Not Listed

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## SECTION 4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES
GENERAL: Consult a doctor for specific advice.
EYES: Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention.
SKIN: Wash thoroughly with soap and water. Dry area with clean towel. Remove contaminated clothing and wash clothing before re-use.
INHALATION: Remove to fresh air. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may administer oxygen. Keep affected person warm and at rest. Obtain medical attention.
INGESTION: Induce vomiting if conscious and as directed by properly qualified personnel. Wash out mouth thoroughly with water. Never make an unconscious person vomit or drink fluids. Obtain Medical Attention Immediately!.
4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED
Refer to Section 2.2 and to section 11.
4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED
No Data.

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## SECTION 5. FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA
This product does not burn.
5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE
Material may evolve toxic fumes in a fire.
5.3. ADVICE FOR FIREFIGHTERS
Use breathing apparatus if necessary.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
Wear suitable protective clothing & equipment as listed under Section 8. Avoid making dust.
6.2. ENVIRONMENTAL PRECAUTIONS
Prevent further leakage or spillage. Do not let product enter drains. Do not discharge to the environment.
6.3. METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP
Take up and containerize for proper disposal. Containerize any cleaning materials used for proper disposal.
6.4. REFERENCE TO OTHER SECTIONS
Dispose as in Section 13.

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## SECTION 7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING:
Keep away from heat. Avoid contact with skin and eyes. Protect against physical damage. Avoid generating dust.
7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES
Keep away from foodstuffs. Keep away from strong acids.
7.3. SPECIFIC END USES
Optical Material for Manufacture of Optical Components.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS
OCCUPATIONAL EXPOSURE LIMITS (OEL) = None Assigned
EXPOSURE CONTROLS
Protective gloves made of PVA are required. Use of a laboratory coat is suggested. Safety goggles or safety glasses with side shields are required if there is any possibility of chipping or dust creation. Respirators must be worn when the threshold limit is exceeded. Provide adequate general mechanical ventilation, and local exhaust ventilation. Wash hands immediately after handling the product.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES
APPEARANCE : Clear white geometric shapes, no odour. FLASH POINT: Not Applicable
BOILING POINT (760mm Hg) 1280?C FLAMMABILITY: Not Applicable
MELTING POINT: 621?C EXPLOSIVE PROPERTIES: Not Applicable
SPECIFIC GRAVITY: 4.51 g/mL Vapor PRESSURE: Negligible at 25?C
SOLUBILITY IN WATER: 44 g/100ml H2O at 20?C pH IN AQUEOUS SOLUTION: No data available
9.2. OTHER SAFETY INFORMATION
None

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## SECTION 10. STABILITY AND REACTIVITY

10.1. REACTIVITY
Reacts with strong mineral acids.
10.2. CHEMICAL STABILITY
Stable under normal conditions of storage and use. Dissolves in water.
10.3. POSSIBILITY OF HAZARDOUS REACTIONS
None known
10.4. CONDITIONS TO AVOID
Avoid strong acids
10.5. INCOMPATIBLE MATERIALS
Strong Mineral Acids.
10.6. HAZARDOUS DECOMPOSITION PRODUCTS
Decomposition product is Hydrogen Iodide gas.

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## SECTION 11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS
Irritant by ingestion and inhalation of dust. Particular care must be exercised when machining and creating dust or particles. Inhalation of dust may irritate respiratory system.
TOXIC DOSE - LD50 > 2386 mg/kg (oral/rat) CARCINOGENICITY: No evidence of carcinogenic properties.
MUTAGENICITY/TERATOGENICITY: No evidence of reproductive effects.

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## SECTION 12. ECOLOGICAL INFORMATION

12.1. TOXICITY
Danger to drinking water due to solubility.
12.2. PERSISTENCE AND DEGRADABILITY
No Data
12.3. BIOACCUMULATIVE POTENTIAL
No Data
12.4. MOBILITY IN SOIL
No Data
12.5. RESULTS OF PBT AND vPvB ASSESSMENT
Not required or conducted
12.6. OTHER ADVERSE AFFECTS
No Data

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## SECTION 13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS
Chemical residues are generally classified as special waste, and are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company.

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## SECTION 14. TRANSPORT INFORMATION

14.1. UN NUMBER: None
14.2. UN PROPER SHIPPING NAME:
Not a Hazardous Material for transportation
14.3. TRANSPORT HAZARD CLASS: None
14.4. PACKING GROUP: None
14.5. ENVIRONMENTAL HAZARDS: None
14.6. SPECIAL PRECAUTIONS FOR USER: None
14.7. TRANSPORT IN BULK MARPOL / IBC: No Data

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## SECTION 15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE
TSCA: Not listed in the TSCA inventory

## 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements 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. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.