SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Name: Indium Telluride Sputtering Target

Product Number: All applicable American Elements product codes, e.g. IN-TE-02-ST , IN-TE-025-ST , IN-TE-03-ST , IN-TE-035-ST , IN-TE-04-ST , IN-TE-05-ST

CAS #: 1312-45-4

Relevant identified uses of the substance: Scientific research and development

Supplier details:
American Elements
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Los Angeles, CA 90024
Tel: +1 310-208-0551
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Emergency telephone number:
+1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE
Pictogram



Signal Word Warning
Hazard Statements
H302+H312+H332 Harmful if swallowed, in contact with skin, or if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Precautionary Phrases
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
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/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
do. Continue rinsing.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
HMIS CLASSIFICATION:
Health: 2 Fire: 0 Reactivity Hazard: 0
NFPA RATING:
Health: 2 Flammability: 0 Reactivity Hazard: 0
EYE CONTACT: Causes serious eye irritation.
SKIN CONTACT: Causes skin irritation.
INHALATION: May cause respiratory irritation.
INGESTION: Harmful if swallowed.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula: In2Te3
Molecular Weight: 612.44
CHEMICAL NAME CAS# %
Indium (III) Telluride 1312-45-4 100

SECTION 4. FIRST AID MEASURES

EYE EXPOSURE: In case of eye contact, flush the eye with plenty of water for at least 15 minutes and seek medical attention.
SKIN EXPOSURE: Immediately wash with plenty soap and water. Get medical attention.
INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial
respiration. Get medical attention.
INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth
with water. Get medical attention.

SECTION 5. FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable
Autoignition: Not available
EXPLOSION LIMITS: Not available
EXTINGUISHING MEDIUM: Use fire fighting measures that suit the surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing,
including eye protection and boots.
HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Tellurium oxides and indium oxides

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SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid dust
formation. Avoid breathing dust.
ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up and place in tightly sealed container for proper
disposal.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Ensure adequate ventilation. Avoid contact
with skin and eyes.
CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS:
Component Exposure Limits Basis Entity
Indium (III) Telluride 0.1 mg/m3 TWA OSHA
0.1 mg/m3 TLV ACGIH
0.1 mg/m3 TWA NIOSH
TLV: Threshold Limit Value over 8 hours of work. TWA: Time Weighted Average over 8 hours of work.
EYE PROTECTION: Wear chemical safety glasses or goggles and face shield.
SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.
VENTILATION: Provide local exhaust, preferably mechanical.
RESPIRATOR: Use an approved respirator.
ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and
handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Black solid
ODOR: None
MOLECULAR WEIGHT: 612.44
BOILING POINT: No data available
MELTING POINT: 667° C
SPECIFIC GRAVITY: 5.8 gm/ml
VAPOR DENSITY: No data available
SOLUBILITY: Insoluble

SECTION 10. STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: None
INCOMPATIBILITY: Strong oxidizing agents, sulfur compounds, and strong acids.
DECOMPOSITION PRODUCTS: Tellurium oxides and indium oxides

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Not available
CARCINOGENIC EFFECTS: No components of this product are identified as being a human carcinogen.
MUTAGENIC EFFECTS: Not available
TETRATOGENIC EFFECTS: Not available
CHRONIC TOXICITY: Not available
RTECS: No data
To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12. ECOLOGICAL INFORMATION

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations

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SECTION 14. TRANSPORT INFORMATION

Not a dangerous good

SECTION 15. REGULATORY INFORMATION

SARA 302/304: Not Listed
SARA 311/312: Acute Health Hazard
SARA (TITLE 313): Not listed
CALIFORNIA PROP. 65: Not Listed
MASSACHUSETTS RIGHT TO KNOW COMPONENTS: No components are subject to the Massachusetts Right to Know Act.
NEW JERSEY RIGHT TO KNOW COMPONENTS: Indium (III) Telluride
PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Indium (III) Telluride

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SECTION 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.