



XI'AN FUNCTION MATERIAL GROUP CO., LTD  
Material Safety Data Sheet  
Cesium Europium Iodide

1. Product and Company Identification

Trade Name: Cesium Europium Iodide  
Chemical Formula: CsEuI<sub>3</sub>  
Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD  
Street: No. 69, Gazelle Valley, High-Tech Zone  
City: XI'AN  
State: Shannxi  
Zip Code: 710077  
Country: China  
Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation  
H360 May damage fertility or the unborn child.  
H302: Harmful if swallowed  
H317: May cause an allergic skin reaction

Precautionary Statements: P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 Wash skin thoroughly after handling  
P271 Use only outdoors or in a well-ventilated area  
P280 Wear protective gloves/eye protection/ face protection  
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.  
P362 Take off contaminated clothing and wash before reuse.  
P403+P223 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/containers to an approved waste disposal plant.

HMIS Health Ratings (0-4):  
Health: 2  
Flammability: 0  
Physical: 1

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### 3. Composition

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Chemical Family: Salt  
Additional Names: None

Cesium Europium Iodide (CsEuI3):  
Percentage: 100 wt%  
CAS #: NIL  
EC #: NIL

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### 4. First Aid Procedures

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General Treatment: Seek medical attention if symptoms persist.  
Special Treatment: None  
Important Symptoms: None

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.  
Ingestion: Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.  
Skin: Wash affected area with mild soap and water. Remove any contaminated clothing.  
Eyes: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

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### 5. Firefighting Measures

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Flammability: Flammable as powder and small pieces  
Contact with water releases flammable gases

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.

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### 6. Accidental Release Measures

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If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

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### 7. Handling and Storage

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Handling Conditions: Wash thoroughly after handling.  
Storage Conditions: Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit.

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## 8. Exposure Controls and Personal Protection

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|                              |                                                                                                                                                                                                                                                                               |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Permissible Exposure Limits: | N/A                                                                                                                                                                                                                                                                           |
| Threshold Limit Value:       | 0.01 mg/m <sup>3</sup> as CsI, long-term value                                                                                                                                                                                                                                |
| Special Equipment:           | None                                                                                                                                                                                                                                                                          |
| Respiratory Protection:      | Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. |
| Protective Gloves:           | Nitrile rubber, NBR 0.1mm thick.                                                                                                                                                                                                                                              |
| Eye Protection:              | Safety glasses or goggles                                                                                                                                                                                                                                                     |
| Body Protection:             | Protective work clothing. Wear close-toed shoes and long sleeves/pants.                                                                                                                                                                                                       |

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## 9. Physical and Chemical Characteristics

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|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Color:                    | N/A                                                        |
| Form:                     | Powder, Granules, Pellets, Sputtering target, Custom parts |
| Odor:                     | Odorless                                                   |
| Water Solubility:         | Insoluble                                                  |
| Boiling Point:            | N/A                                                        |
| Melting Point:            | N/A                                                        |
| Flash Point:              | N/A                                                        |
| Autoignition Temperature: | N/A                                                        |
| N/A:                      | N/A                                                        |
| Density:                  | N/A                                                        |
| Molecular weight:         | 665.58 g/mol                                               |

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## 10. Reactivity

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|-----------------------------------|---------------------------------------------|
| Stability:                        | Stable under recommended storage conditions |
| Reacts with:                      | Oxidizing agents                            |
| Incompatible Conditions:          | Water/ moisture, Light, Air                 |
| Hazardous Decomposition Products: | Metal oxide fume, Hydrogen iodide (HI)      |

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## 11. Toxicological Information

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|                                |                                           |
|--------------------------------|-------------------------------------------|
| Potential Health Effects:      |                                           |
| Eyes:                          | Causes serious eye damage                 |
| Skin:                          | Causes skin irritation                    |
| Ingestion:                     | May cause irritation                      |
| Inhalation:                    | May cause irritation                      |
| Chronic:                       | May damage fertility or the unborn child. |
| Signs & Symptoms:              | N/A                                       |
| Aggravated Medical Conditions: | N/A                                       |
| Median Lethal Dose:            | 1400 mg/kg for rat by mouth               |
| Carcinogen:                    | N/A                                       |

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## 12. Ecological Information

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|                                        |     |
|----------------------------------------|-----|
| Aquatic Toxicity:                      | Low |
| Persistent Bioaccumulation Toxicity:   | No  |
| Very Persistent, Very Bioaccumulative: | No  |
| Notes:                                 | N/A |

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### 13. Disposal Considerations

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Dispose of in accordance with local, state, national, and international regulations.

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### 14. Transportation Data

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|                       |                                   |
|-----------------------|-----------------------------------|
| Hazardous:            | Not hazardous for transportation. |
| Hazard Class:         | N/A                               |
| Packing Group:        | N/A                               |
| UN Number:            | N/A                               |
| Proper Shipping Name: | N/A                               |

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### 15. Regulatory Information

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|--------------------------------|-----|
| Sec 302 Extremely Hazardous:   | No  |
| Sec 304 Reportable Quantities: | N/A |
| Sec 313 Toxic Chemicals:       | No  |

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### 16. Other Information

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This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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