

## XI'AN FUNCTION MATERIAL GROUP CO., LTD Safety Data Sheet

Copper Indium Telluride

### 1. Product and Company Identification

Trade Name: Copper Indium Telluride

Chemical Formula: CuInTe<sub>2</sub>

Recommended Use: Scientific research and development

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

### 2. Hazards Identification

Signal Word: Dang



Hazard Statements: H301: Toxic if swallowed

H332: Harmful if inhaled

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER

or doctor/physician

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P312: Call a POISON CENTER or doctor/physician if you feel unwell

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 1

# 3. Composition

Chemical Family: Ceramic

Additional Names: Copper Indium Ditelluride

Copper Indium telluride (CuInTe<sub>2</sub>):

Percentage: 0-100 wt% CAS #: N/A EC #: NIL

4. First Aid Procedures

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: Seek medical attention

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

5. Firefighting Measures

Flammability: Non-flammable

Extinguishing Media: No special restrictions – use suitable extinguishing agent for

surrounding material and type of fire

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.

6. Accidental Release Measures

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.

7. Handling and Storage

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.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.1 mg/m<sup>3</sup> as Te, long-term value

Threshold Limit Value: 0.1 mg/m<sup>3</sup> as Te, long-term value

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

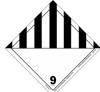
9. Physical and Chemical Characteristics	
Color	Black
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	433.57 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Mineral acids, Oxidizing agents
Incompatible Conditions:	None
Hazardous Decomposition Products:	Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes irritating effect
Skin:	Irritant to skin and mucous membranes
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	Indium and indium compounds may cause metallic taste, dermatitis,
	depression of the bone marrow function. Large doses may cause
	hemorrhagic nephritis. Tellurium is converted in the body to dimethyl
	telluride which imparts garlic-like odor to the breath and sweat. Heavy
	exposure may result in headache, drowsiness, metallic taste, loss of
	appetite, nausea, tremors, convulsions, and respiratory arrest.
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Madien Lethel Dage	NT/A
Median Lethal Dose:	N/A
Carainagan	EDA D: Not classifiable as to human carcinogenicity; inadequate
Carcinogen:	EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available
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	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	Do not allow material to be released to the environment without prope
	governmental permits
	Do not allow undiluted product or large quantities to reach ground
	water, water course or sewage system.
	Avoid transfer into the environment.

13. Disposal Considerations

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

### 14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 9 Miscellaneous dangerous substances and articles

Packing Group: III UN Number: UN3077

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Copper Indium

Telluride)

15. Regulatory Information

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

#### 16. Other Information

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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