

EC #:

LTS Research Laboratories, Inc. Safety Data Sheet Copper Gallium Telluride

	1. Product and Company Identification
Trade Name:	Copper gallium telluride
Chemical Formula:	CuGaTe ₂
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	LTS Research Laboratories, Inc.
Street:	37 Ramland Road
City:	Orangeburg
State:	New York
Zip Code:	10962
Country:	USA
Tel #:	855-587-2436 / 855-lts-chem
24-Hour Emergency Contact:	800-424-9300 (US & Canada)
	+1-703-527-3887 (International)
	2. Hazards Identification
Signal Word:	Danger
Hazard Statements: Precautionary Statements:	H301: Toxic if swallowed H301: Toxic if swallowed H332: Harmful if inhaled 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 gallium ditelluride
Copper gallium telluride (CuGaTe ₂):	
Percentage:	0-100 wt%
CAS #:	12018-84-7
170 4.	NUL

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
Even	contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove
Eyes:	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
	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
0	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^3 as Te, long-term value
Threshold Limit Value:	0.1 mg/m^3 as Te, long-term value
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants.

9. P	hysical and Chemical Characteristics
Color	Gold/grey
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:	388.47 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:	Gallium and gallium 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
Median Lethal Dose:	N/A
Carcinogen:	EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available
	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 proper
	governmental permits
	Do not allow undiluted product or large quantities to reach ground
	water, water course or sewage system.
	Avoid transfer into the environment.

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 gallium 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.

Document Last Revised:

06/23/2015