

LTS Research Laboratories, Inc. Safety Data Sheet Lanthanum Copper Iron Oxide

1. Product and Company Identification

Trade Name:	Lanthanum copper iron oxide
Chemical Formula:	$LaCu_3Fe_4O_{12}$
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:	Warning
Hazard Statements:	H315 Causes skin irritation.
Hazard Statements.	H319 Causes serious eye irritation. H335: May cause respiratory irritation
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3. Composition		
Chemical Family:	Ceramic	
Additional Names:	None	
Lanthanum copper iron oxide (LaCu	$_{3}Fe_{4}O_{12}$):	
Percentage:	0-100 wt%	
CAS #:	NIL	
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:	Handle under dry protective gas. Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under ry	
	inert gas. 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:	N/A	
Threshold Limit Value:	N/A	
Special Equipment:	None	
Respiratory Protection:	Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.	
Protective Gloves:	Nitrile rubber, NBR 0.11mm thick.	
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:	744.92 g/mol	
	10. Reactivity atonias, Inc.	
Stability:	Stable under recommended storage conditions	
Reacts With:	Metal powders, Alkali metals, Aluminum/aluminum alloys,	
	Magnesium/magnesium alloys, Mineral acids, Oxidizing agents	
Incompatible Conditions:	Water/moisture, Air	
Hazardous Decomposition Products:	Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes serious eye damage	
Skin:	Causes skin irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/A	
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:	Very toxic for aquatic organism.
	May cause long lasting harmful effect on aquatic life.
	Do not allow material to be released to the environment without proper governmental permits.
	Do not allow product to reach any water sources.
	Danger to drinking water if even extremely small quantities leak into
	the ground.
	Also poisonous for fish and plankton in water bodies.
	Avoid transfer into the environment.
	13. Disposal Considerations
Dispose of in accordance with local, state,	, national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous for transportation as powder
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	Miradian range data substances and articles
Hazard Class:	9 Miscellaneous dangerous substances and articles
Hazard Class: Packing Group:	III konstonies, inc.
Hazard Class:	III UN3077
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Hazard Class: Packing Group: UN Number: Proper Shipping Name: Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities:	III UN3077 Environmentally hazardous substances, solid, n.o.s. (Lanthanum copperiron oxide) 15. Regulatory Information No N/A
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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.

Document Last Revised:

07/10/2015