

LTS Research Laboratories, Inc. Safety Data Sheet YBC-907

	1. Product and Company Identification
Trade Name:	YBC-907
Chemical Formula:	Solid solution of rare earth fluorides
Recommended Use:	High Power Laser
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
	H302+H332: Harmful if swallowed or if inhaled
Hazard Statements:	H315: Causes skin irritation H319: Causes serious eye irritation
Hazard Statements: Precautionary Statements:	H315: Causes skin irritation
	H315: Causes skin irritation H319: Causes serious eye irritation
	H315: Causes skin irritation H319: Causes serious eye irritation P261 Avoid breathing dust/fume/vapor
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	 H315: Causes skin irritation H319: Causes serious eye irritation P261 Avoid breathing dust/fume/vapor P264: Wash thoroughly after handling P280: Wear protective gloves/protective clothing/eye protection/face
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HMIS Health Ratings (0-4):	
Health:	
Flammability:	
Physical:	

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3. Composition		
Chemical Family:	Ceramic	
Additional Names:	None	
YBC-907 (Solid solution of rare earth	fluorides):	
Percentage:	100 wt%	
CAS #:	None	
EC #:	None	
	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	
	Non-flammable	
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for	
6	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 dry	
	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.	
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Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.	

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	2.5 mg/m ³ as F, long-term value	
Threshold Limit Value:	2.5 mg/m^3 as F, 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	
body Hotellon.	sleeves/pants.	
9.	Physical and Chemical Characteristics	
Color	Off-white to beige	
Form:	Powder, Granules, Pellets	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	1092 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	6.56 g/cc	
Molecular weight:	N/A	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Water, Oxidizing agents	
Incompatible Conditions:	Water/moisture	
Hazardous Decomposition Products:	Barium oxide, Hydrogen fluoride, Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
_	Causes serious eye irritation	
Eyes:	Causes serious eye initiation	
Eyes: Skin:	Causes irritation	
Skin:	Causes irritation	
Skin: Ingestion:	Causes irritation Harmful	
Skin: Ingestion: Inhalation:	Causes irritation Harmful Harmful fluorides may cause salivation, nausea, vomiting, diarrhea and	
Skin: Ingestion: Inhalation:	Causes irritation Harmful Harmful fluorides may cause salivation, nausea, vomiting, diarrhea and abdominal pain, followed by weakness, tremors, shallow respiration,	
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Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms:	Causes irritation Harmful Harmful fluorides may cause salivation, nausea, vomiting, diarrhea and abdominal pain, followed by weakness, tremors, shallow respiration, convulsions and coma. May cause brain and kidney damage. Chronic Fluoride poisoning can cause severe bone changes, loss of weight, anorexia, anemia and dental defects. Lanthanons can cause delayed blood clotting leading to hemorrhages Exposure may also lead to sensitivity to heat, itching, increased awareness of odor and taste, and liver damage. N/A	
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Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose:	Causes irritation Harmful Harmful fluorides may cause salivation, nausea, vomiting, diarrhea and abdominal pain, followed by weakness, tremors, shallow respiration, convulsions and coma. May cause brain and kidney damage. Chronic Fluoride poisoning can cause severe bone changes, loss of weight, anorexia, anemia and dental defects. Lanthanons can cause delayed blood clotting leading to hemorrhages Exposure may also lead to sensitivity to heat, itching, increased awareness of odor and taste, and liver damage. N/A N/A	
Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions:	Causes irritation Harmful Harmful fluorides may cause salivation, nausea, vomiting, diarrhea and abdominal pain, followed by weakness, tremors, shallow respiration, convulsions and coma. May cause brain and kidney damage. Chronic Fluoride poisoning can cause severe bone changes, loss of weight, anorexia, anemia and dental defects. Lanthanons can cause delayed blood clotting leading to hemorrhages Exposure may also lead to sensitivity to heat, itching, increased awareness of odor and taste, and liver damage. N/A N/A ~250 mg/kg for rat by mouth	

13. Disposal Considerations

No

N/A

14. Transportation Data		
Hazardous:	Hazardous for transportation as powder. POISON 6	
Hazard Class:	6.1 Toxic substances.	
Packing Group:	III	
UN Number:	UN3288	
Proper Shipping Name:	Toxic solid, inorganic, n.o.s. (YBC-907)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	Components are listed	
	16. Other 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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01/15/2023