

LTS Research Laboratories, Inc. Safety Data Sheet Magnesium Yttrium Alloy

1. Product and Company Identification	
Trade Name:	Magnesium Yttrium Alloy
Chemical Formula:	MgY
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:	H228: Flammable solid H251: Self-heating: may catch fire
	H261: In contact with water releases flammable gas
Precautionary Statements:	P210: Keep away from heat/sparks/flame. No smoking.
	 P231+P232: Handle under inert gas. Protect from moisture. protection P240: Ground/bond container and receiving equipment P241: Use explosion-proof electrical/ventilating/lighting/equipment P280: Wear protective gloves/protective clothing/eye protection/face protection P370+P378: In case of fire use special powder for metal fires for extinction.
HMIS Health Ratings (0-4):	 protection P240: Ground/bond container and receiving equipment P241: Use explosion-proof electrical/ventilating/lighting/equipment P280: Wear protective gloves/protective clothing/eye protection/face protection P370+P378: In case of fire use special powder for metal fires for
Health:	 protection P240: Ground/bond container and receiving equipment P241: Use explosion-proof electrical/ventilating/lighting/equipment P280: Wear protective gloves/protective clothing/eye protection/face protection P370+P378: In case of fire use special powder for metal fires for
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3. Composition		
Chemical Family:	Alloy	
Additional Names:	N/A	
Magnesium (Mg):		
Percentage:	0-100 wt%	
CAS #:	7439-95-4	
EC #:	231-104-6	
Yttrium (Y):		
Percentage:	0-100 wt%	
CAS #:	7440-65-5	
EC #:	231-174-8	
	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:	Give one to two glasses of water and induce vomiting. Never induce	
C1 :	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	
	- Besearch	
	5. Firefighting Measures 5. Inc.	
Flammability:	Flammable as powder and pieces	
Extinguishing Media:	Do not use water for metal fires – use CO2, sand, extinguishing	
	powder.	
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	
in material is hereased opined.	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	
World Incionia Maintenant	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:	1 mg/m ³ as Y, long-term value	
Threshold Limit Value:	1 mg/m^3 as Y, 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 Protection.	sleeves/pants.	
9. P	Physical and Chemical Characteristics	
Color	N/A	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	N/A	
Water Solubility:	N/A N/A	
Boiling Point:	N/A N/A	
Melting Point:	N/A	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	N/A	
Molecular weight:	N/A	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
	Oxidizing agents, Water, Air	
Reacts With:		
	Air moisture	
Incompatible Conditions:	Air, moisture	
Incompatible Conditions:	Air moisture	
Incompatible Conditions:	Air, moisture	
Incompatible Conditions: Hazardous Decomposition Products:	Air, moisture a bonstories, Inc. Metal oxide fume	
Reacts With: Incompatible Conditions: Hazardous Decomposition Products: Potential Health Effects: Eves:	Air, moisture constories, Inc. Metal oxide fume	
Incompatible Conditions: Hazardous Decomposition Products: Potential Health Effects: Eyes:	Air, moisture Metal oxide fume 11. Toxicological Information May cause irritation	
Incompatible Conditions: Hazardous Decomposition Products: Potential Health Effects: Eyes: Skin:	Air, moisture Metal oxide fume 11. Toxicological Information May cause irritation May cause irritation	
Incompatible Conditions: Hazardous Decomposition Products: Potential Health Effects: Eyes: Skin: Ingestion:	Air, moisture Metal oxide fume 11. Toxicological Information May cause irritation May cause irritation May cause irritation	
Incompatible Conditions: Hazardous Decomposition Products: Potential Health Effects: Eyes: Skin: Ingestion: Inhalation:	Air, moisture Metal oxide fume 11. Toxicological Information May cause irritation May cause irritation May cause irritation May cause irritation May cause irritation	
Incompatible Conditions: Hazardous Decomposition Products: Potential Health Effects: Eyes: Skin: Ingestion:	Air, moisture Metal oxide fume 11. Toxicological Information May cause irritation May cause irritation May cause irritation	
Incompatible Conditions: Hazardous Decomposition Products: Potential Health Effects: Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms:	Air, moisture Metal oxide fume 11. Toxicological Information May cause irritation May cause irritation May cause irritation May cause irritation May cause irritation	
Incompatible Conditions: Hazardous Decomposition Products: Potential Health Effects: Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms:	Air, moisture Metal oxide fume 11. Toxicological Information May cause irritation May cause irritation May cause irritation May cause irritation May cause irritation N/A	
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Incompatible Conditions: Hazardous Decomposition Products: Potential Health Effects: Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions:	Air, moisture Metal oxide fume 11. Toxicological Information May cause irritation May cause irritation May cause irritation May cause irritation May cause irritation N/A N/A N/A	
Incompatible Conditions: Hazardous Decomposition Products: Potential Health Effects: Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose:	Air, moisture Metal oxide fume 11. Toxicological Information May cause irritation May cause irritation May cause irritation May cause irritation N/A N/A N/A N/A	
Incompatible Conditions: Hazardous Decomposition Products: Potential Health Effects: Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose: Carcinogen:	Air, moisture Metal oxide fume 11. Toxicological Information May cause irritation N/A N/A N/A N/A N/A N/A N/A 12. Ecological Information	
Incompatible Conditions: Hazardous Decomposition Products: Potential Health Effects: Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose: Carcinogen: Aquatic Toxicity:	Air, moisture Metal oxide fume 11. Toxicological Information May cause irritation N/A Low	
Incompatible Conditions: Hazardous Decomposition Products: Potential Health Effects: Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose: Carcinogen: Aquatic Toxicity: Persistent Bioaccumulation Toxicity:	Air, moisture Metal oxide fume 11. Toxicological Information May cause irritation N/A No	
Incompatible Conditions: Hazardous Decomposition Products: Potential Health Effects: Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose: Carcinogen: Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative:	Air, moisture Metal oxide fume 11. Toxicological Information May cause irritation My N/A No No No	
Incompatible Conditions: Hazardous Decomposition Products: Potential Health Effects: Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose: Carcinogen: Aquatic Toxicity: Persistent Bioaccumulation Toxicity:	Air, moisture Metal oxide fume 11. Toxicological Information May cause irritation N/A No	

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

14. Transportation Data

Hazardous:

Hazardous for transportation



Hazardous: Hazard Class: Secondary Class: Packing Group: UN Number: Proper Shipping Name:

Hazardous: Hazard Class: Packing Group: UN Number: Proper Shipping Name: As powder 4.3 Substances which in contact with water release flammable gas 4.2 Spontaneously combustible solids II

UN1418

Magnesium Alloys



As pieces 4.1 Flammable solids III UN1869 Magnesium Alloys

15. Regulatory Information

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

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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