

LTS Research Laboratories, Inc. Safety Data Sheet Iron Germanium Alloy

1. Product and Company Identification		
Trade Name:	Iron germanium alloy	
Chemical Formula:	Fe-Ge	
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	
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Hazard Statements:	H228 Flammable solid	
	H319 Causes serious eye irritation	
	H335 May cause respiratory irritation	
Precautionary Statements:	P210 Keep away from heat/sparks. No smoking.	
	P261 Avoid breathing dust/fume/vapor	
	P305+P351 If in eyes: Rinse cautiously with water for several minutes	
	P304+P340 In inhaled: Remove person to fresh air	
HMIS Health Ratings (0-4):		
Health:	1	
Flammability:	0 (2 if powder)	
Physical:		
	3. Composition	
Chemical Family:	Metal alloy	
Additional Names:	Iron germanide, Germanium iron	
Iron (Fe):		
Percentage:	0-100 wt%	
CAS #:	7439-89-6	
F <i>G U</i>	231-096-4	
EC #:		
Germanium (Ge):		
	0-100 wt%	
Germanium (Ge):	0-100 wt% 7440-56-4	

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		
Claim	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		
	5. Fire and Explosion Hazards Data		
Flammability:	Non-flammable, except as powder		
Flash Point:	N/A		
Autoignition Temperature:	N/A		
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , 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.		
	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.		
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:	5 mg/m ³ as Fe, long-term value		
Special Equipment:	None		
Respiratory Protection:	Dust Respirator, NIOSH approved		
Protective Gloves:	Rubber gloves		
Eye Protection:	Safety glasses or goggles Protective work clothing. Wear close toed shoes and long		
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.		
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9. Physical and Chemical Characteristics		
Color	Metallic grey	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	>937 °C	
Density:	N/A	
Molecular weight:	N/A	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes serious irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/A	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A Baapaab	
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Median Lethal Dose:	30,000 mg/kg for rat by mouth	
Carcinogen:	N/A	
	12. Ecological Information	
Ecological data is not available.		
	13. Disposal Considerations	
Dispose of in accordance with local, stat	te, national, and international regulations.	
	14. Transportation Data	
Hazardous:	Hazardous as powder only.	
	FLANMABLE SOLD	
Hazard Class:	4.1 Flammable solids, self-reactive substances, and solid desensitized explosives	
Packing Group:	III	
UN Number:	UN3089	
Proper Shipping Name:	Metal powders, flammable, n.o.s.	
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	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	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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