

LTS Research Laboratories, Inc. Safety Data Sheet Iron Metal

1. Product and Company Identification			
Trade Name:	Iron Metal		
Chemical Formula:	Fe		
Recommended Use:	Scientific re	search and development	
Manufacturer/Supplier:	LTS Research Laboratories, Inc.		
Street:	2001 Oaks l		
City:	Belmont		
State:	North Carol	ina	
Zip Code:	28012		
Country:	USA		
Tel #:	855-587-24	36 / 855-lts-chem	
24-Hour Emergency Contact:		00 (US & Canada)	
		-3887 (International)	
	2. Hazards	Identification	
Signal Word:	Warning	A	
		research	
Hazard Statements:	H228. Flom	mable solid	
nazaru Statements.			
	H252: Self-heating in large quantities; may catch fire		
Precautionary Statements:	P210: Keep	away from heat/ sparks/ open flames/ hot surfaces. No	
	smoking		
		0: Keep cool. Protect from sunlight	
		nd/bond container and receiving equipment	
		xplosion-proof electrical/ventilating/ lighting/ equipmen	
		protective gloves/ eye protection/ face protection	
		8: In case of fire: Use dry sand, dry chemical or alcohol-	
	resistant foam to extinguish		
	P403 + P235: Store in a well-ventilated place. Keep cool		
	P407: Maintain air gap between stacks/ pallets		
	P420: Store away from other materials		
HMIS Health Ratings (0-4):	Powder	Bulk	
Health:	1	0	
Flammability:	2	0	
Physical:	1	0	
	3. Cor	nposition	
Chemical Family:	Metal		
Additional Names:	None		
Iron (Fe)	100		
Percentage:	100 wt%		
CAS #:	7439-89-6		
EC #:	231-096-4		

	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	N/A	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention.	
Ingestion:	Rinse mouth with water. Do not induce vomiting. Seek medical attention.	
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing. Seek medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medica attention.	
	5. Firefighting Measures	
- Flammability:	Flammable as powder	
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. 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. 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 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.	
	Exposure Controls and Personal Protection	
Permissible Exposure Limits:	N/A	
Threshold Limit Value:	N/A	
Special Equipment:	None	
Respiratory Protection:	Dust Respirator	
Protective Gloves:	Rubber gloves Check gloves prior to each use	
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	Grey	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	2750 °C	
Melting Point:	1535 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	7.86 g/cm^3	
Molecular weight:	55.845 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Strong oxidizing agents, Acids, Fluorine, halogenated agents,	
	Halogens, oxygen, nitriles, Aldehydes	
Incompatible Conditions:	Avoid dust formation, Excess heat, Exposure to moist air or water	
Hazardous Decomposition Products:	Metal oxide fume, Iron oxides, Hydrogen	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/A Research	
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Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	30000 mg/kg for rat by mouth	
Carcinogen:	N/A	
	12. Ecological Information	
Aquatic Toxicity:	Low	
Persistent Bioaccumulation Toxicity:	No	
Very Persistent, Very Bioaccumulative:	No	
Notes:	N/A	
	13. Disposal Considerations	

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

	14. Transportation Data	
Hazardous:	Hazardous as powder only	
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. (Iron)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
	No	

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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