

LTS Research Laboratories, Inc. Safety Data Sheet Iron (III) arsenide

1. Product and Company Identification		
Trade Name:	Iron (III) arsenide	
Chemical Formula:	FeAs	
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:	H301+H331: Toxic if swallowed or if inhaled.	
Hazard Statements:	H312: Harmful in contact with skin	
	H350: May cause cancer.	
Precautionary Statements:	H410: Very toxic to aquatic life with long lasting effects P201: Obtain special instructions before use.	
	P202: Do not handle until all safety precautions have been read and	
	understood. P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.	
	P264: Wash skin thoroughly after handling.	
	P270: Do not eat, drink or smoke when using this product.	
	P271: Use only outdoors or in a well-ventilated area.	
	P273: Avoid release to the environment.	
	P280: Wear protective gloves/ protective clothing/ eye protection/ face	
	protection. P201 P210 P220, IE SWALLOWED: Immediately cell a POISON	
	P301+P310+P330: IF SWALLOWED: Immediately call a POISON	
	CENTER/doctor. Rinse mouth.	
	P304+P340+P311: IF INHALED: Remove person to fresh air and kee comfortable for breathing. Call a POISON CENTER/doctor.	
	P308+P313: IF exposed or concerned: Get medical advice/ attention.	
	P391: Collect spillage.	
	P403+P233: Store in a well-ventilated place. Keep container tightly	
	closed.	
	P405: Store locked up	
	P501: Dispose of contents/container in accordance with	
	local/regional/national/international regulations	
HMIS Health Ratings (0-4):		
Health:	2	
Flammability:		

3. Composition		
Chemical Family:	Ceramic	
Additional Names:	Ferric arsenide	
Iron (III) arsenide (FeAs):		
Percentage:	100 wt%	
CAS #:	12044-16-5	
EC #:	234-947-8	
	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.	
*	Keep patient warm. Seek immediate medical attention.	
Ingestion:	Seek immediate medical attention.	
Skin:	Immediately wash affected area with mild soap and water. Remove any	
-	contaminated clothing. Seek immediate medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
	contact lenses if present and easy to do. Continue rinsing. Seek	
	immediate medical attention.	
	5. Firefighting Measures	
Flammability:	Non-flammable, except as powder	
Extinguishing Madia	No special restrictions – use suitable extinguishing agent for	
Extinguishing Media:	surrounding material and type of fire.	
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective	
spec. File Fighting Flocedule.		
	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	
n material is released, opined.	special protection information. Keep unprotected persons away. 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 inert gas. Avoid contact with skin and eyes. Wash	
	thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Protect from	
	moisture and water. 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	

8. Exj	posure Controls and Personal Protection
Permissible Exposure Limits:	0.01 mg/m ³ as As, long-term value
Threshold Limit Value:	0.01 mg/m^3 as As, long-term value
Special Equipment:	Properly operating chemical fume hood designed for hazardous
Speerar Equipment.	chemicals and having an average face velocity of at least 100 feet pe
	minute.
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
	sleeves/pants.
9. I	Physical and Chemical Characteristics
Color	N/A
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	Slightly soluble
Boiling Point:	N/A
Melting Point:	1,020 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	7.83 g/cc
Molecular weight:	130.77 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	Heat, flame, sparks, other ignition sources
Hazardous Decomposition Products:	Metal oxide fume, arsenic oxides, iron oxide
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	Harmful in contact with skin
Ingestion:	Toxic if swallowed
Inhalation:	Toxic if inhaled
Chronic:	N/A
Signs & Symptoms:	May cause convulsions. Benign pneumoconiosis, ulceration,
	gastrointestinal disturbance, depigmentation of skin and hair.
Aggravated Medical Conditions:	Dermatitis, bronchitis, shock, lowered blood pressure, anorexia. N/A
Median Lethal Dose:	N/A
Carcinogen:	IARC: 1 - Group 1: Carcinogenic to humans (Iron (III) arsenide)
	NTP: Known - Known to be human carcinogen (Iron (III) arsenide) OSHA: OSHA specifically regulated carcinogen (Iron (III) arsenide)
	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A

3 of 4

Notes:	Do not allow material to be released to the environment without proper governmental permits. Do not allow product to reach ground water, water course or sewage system Very toxic to aquatic organisms. Avoid transfer into the environment.
	13. Disposal Considerations
Dispose of in accordance with local, state, n	ational, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous for transportation
	POISON 6
Hazard Class: Packing Group:	6.1 Toxic substances
UN Number:	UN1557
Proper Shipping Name:	Arsenic compounds, solid, n.o.s. (Iron (III) arsenide)
	15. Regulatory Information
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities:	No Research N/A
Sec 313 Toxic Chemicals:	Yes
	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.

Document Last Revised:

08/06/2019