

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.

H312: Harmful in contact with skin

H350: May cause cancer.

H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements: 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.

P301+P310+P330: IF SWALLOWED: Immediately call a POISON

CENTER/doctor. Rinse mouth.

P304+P340+P311: IF INHALED: Remove person to fresh air and keep

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: 0 Physical: 0

3. Composition	
Chemical Family: Additional Names:	Ceramic 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.
Ingestion:	Keep patient warm. Seek immediate medical attention. 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 Media:	Research No special relations of the least the second for
Extinguishing Media.	No special restrictions—use suitable extinguishing agent for 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
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If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
	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
Storage Conditions:	thoroughly after handling. Store in a cool dry place in a tightly sealed container. Protect from
Storage Conditions:	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
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below
· Distriction	threshold limit.

8. Exposure Controls and Personal Protection	
Permissible Exposure Limits:	0.01 mg/m³ as As, long-term value
Threshold Limit Value:	0.01 mg/m³ as As, long-term value
Special Equipment:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per
	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.	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: Inhalation:	Toxic if swallowed
Chronic:	Toxic if inhaled
Chronic:	N/A
Signs & Symptoms:	May cause convulsions. Benign pneumoconiosis, ulceration,
organ de Symptoms.	gastrointestinal disturbance, depigmentation of skin and hair.
	Dermatitis, bronchitis, shock, lowered blood pressure, anorexia.
Aggravated Medical Conditions:	N/A
	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

N/A

N/A N/A

Aquatic Toxicity:

Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: 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, national, and international regulations.

14. Transportation Data

Hazardous:

Hazardous for transportation



Hazard Class: 6.1 Toxic substances

Packing Group: III 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
NA

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.

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