



LTS Research Laboratories, Inc.
Safety Data Sheet
Arsenic

1. Product and Company Identification

Trade Name: Arsenic
Chemical Formula: As
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+H311 Toxic if swallowed or in contact with skin
H410 Very toxic to aquatic life with long lasting effects.
P273 Avoid release to the environment.

Precautionary Statements: P261 Avoid breathing dust/fume/vapor
P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P311 Call a POISON CENTER or doctor/physician
P321 Specific treatment (see on this label)
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: Powder 3 Pieces 2
Flammability: 1 0
Physical: 1 1

3. Composition

Chemical Family: Metalloid
Additional Names: N/A

Arsenic (As):
Percentage: 100 wt%
CAS #: 7440-38-2
EC #: 231-148-6

4. First Aid Procedures

General Treatment: Remove any contaminated clothing
Remove breathing apparatus only after contaminated clothing has been completely removed
Supply oxygen if breathing is difficult
Seek medical attention if symptoms persist

Special Treatment: None
Important Symptoms: None

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.
Seek immediate medical attention.

Ingestion: Do not induce vomiting. Seek immediate medical attention.

Skin: Wash affected area with mild soap and water. Seek immediate medical attention

Eyes: Flush eyes with water, blinking often for several minutes.

5. Firefighting Measures

Flammability: Non-flammable, except as powder

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

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.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits:	0.5* 0.01** mg/m ³ as As, long-term value *organic **inorganic
Threshold Limit Value:	0.01 mg/m ³ as As, long-term value
Special Equipment:	None
Respiratory Protection:	Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.
Protective Gloves:	Nitrile rubber, NBR 0.11mm thick.
Penetration time of glove material:	480 minutes
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:	614 °C
Melting Point:	871 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	5.778 g/cc
Molecular weight:	74.922 g/mol



10. Reactivity

Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, Acids
Incompatible Conditions:	Air
Hazardous Decomposition Products:	Toxic metal oxide fume, arsenic oxides

11. Toxicological Information

Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	Toxic
Inhalation:	Toxic
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	Confirmed carcinogen EPA-AL, IARC-1, ACGIH A1, NTP-K


12. Ecological Information

Aquatic Toxicity:	High
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	Very toxic to aquatic life Keep away from any water sources May cause long lasting harmful effects to aquatic life.

13. Disposal Considerations

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

14. Transportation Data

Hazardous:	Hazardous
	
Hazard Class:	6.1 Toxic substances
Packing Group:	II
UN Number:	UN1558
Proper Shipping Name:	Arsenic

15. Regulatory Information

Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	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.

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