

# LTS Research Laboratories, Inc. Safety Data Sheet Arsenic sulfide

# 1. Product and Company Identification

Trade Name: Arsenic sulfide

Chemical Formula:  $As_2S_3$ 

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 #: 845-587-2436 / 845-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, in contact with skin or inhaled

Precautionary Statements: P261: Avoid breathing dust/fume/vapor

P273: Avoid release to the environment

P270: Do not eat, drink or smoke when using this product

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P301+310: IF SWALLOWED: Immediately call a POISON CENTER

or doctor/physician...

P361: Remove/Take off immediately all contaminated clothing

P309: IF exposed or you feel unwell:

P310: Immediately call a POISON CENTER or doctor/physician

P302+352: IF ON SKIN: Wash with soap and water

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health:

Flammability:

Physical:

Powder

9 ieces

0

0

1

3. Composition  Ceramic Arsenic (III) sulfide, Arsenic trisulfide
Arsenie (III) suinde, Arsenie trisunde
100 wt%
1303-33-9 215-117-4
213-117-4
4. First Aid Procedures
Remove any contaminated clothing.
Supply oxygen if breathing is difficult
Seek medical attention if symptoms persist.
None
None
Remove victim to fresh air. Supply oxygen if breathing is difficult.
Seek immediate medical attention
Do not induce vomiting. Seek immediate medical attention
Wash affected area with mild soap and water.
Flush eyes with water, blinking often for several minutes.
5. Firefighting Measures
Non-flammable poretories, inc.
No special restrictions – use suitable extinguishing agent for
surrounding material and type of fire.
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
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.
Isolate runoff to prevent environmental pollution.
7. Handling and Storage
Wash thoroughly after handling.
Store in a cool dry place in a tightly sealed container. Store apart from
materials and conditions listed in section 10.
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.
Provide sufficient ventilation to maintain concentration at or below
threshold limit.

# 8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.5 mg/m³ as As, long-term value Threshold Limit Value: 0.1 mg/m³ as As, long-term value

Special Equipment: None

Respiratory Protection: Refer to 29CFR1910.1018 for regulations on respiratory protection

required during exposure to inorganic arsenic.

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 Yellow

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Sulfur (rotten eggs)

Water Solubility:

Boiling Point:

M/A

Melting Point:

Flash Point:

Autoignition Temperature:

Density:

Molecular weight:

Insoluble

N/A

707 °C

300 °C

N/A

343 g/cc

246.035 g/mol

#### 10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents or atomes inc.

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fumes, Sulfur oxides, Arsenic oxides

### 11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation Skin: May cause irritation

Ingestion:ToxicInhalation:ToxicChronic:N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: 185 mg/kg for rat by mouth

936 mg/kg for rat by skin

Carcinogen: EPA-A: human carcinogen: sufficient evidence from epidemiologic

studies to support a casual association between exposure and cancer

IARC-1: Carcinogenic to humans: sufficient evidence of

carcinogenicity

ACGIH A1: Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical

evidence in, exposed humans. Carcinogen as defined by OSHA

NTP-K: Known to be carcinogenic: sufficient evidence from human

etudies

Addition information: To the best of our knowledge the acute and chronic toxicity of this

substance is not fully known.

12. Ecological Information

Aquatic Toxicity: High

Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No

Notes: Very toxic for aquatic organisms

Avoid transfer into the environment Keep away from 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: III UN Number: UN1557

Proper Shipping Name: Arsenic compounds, solid, n.o.s. (Arsenic sulfide)

15. Regulatory Information

Sec 302 Extremely Hazardous:

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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