

# SAFETY DATA SHEET

**Date Printed:** 06/05/2024 **Date Revised:** 01/15/2022

#### **SECTION 1. IDENTIFICATION**

Product Identifier: (5N) 99.999% Gallium(II) Sulfide Lump

Product Code: GA-S-05-L

CAS Number: 12024-10-1

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551

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Emergency telephone number:

+1 800-424-9300

## **SECTION 2. HAZARDS IDENTIFICATION**

Signal Word: Danger



Hazard Statements:

H314: Causes severe skin burns and eye damage

**Precautionary Statements:** 

P260: Do not breathe dust/fume/gas/mist/vapors/spray

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do - continue rinsing

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

**HMIS** 

Health Ratings (0-4):

Health: 3 Flammability: 0

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Family: Ceramic

Additional Names:

Gallium(II) sulfide, Gallium monosulfide

Gallium sulfide(GaS): Percentage: 100 wt% CAS#: 12024-10-1 EC #: 234-688-0

## **SECTION 4. FIRST AID MEASURES**

**General Treatment:** 

Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: Causes severe skin burns. Causes serious eye damage.

Inhalation:

Remove victim to fresh air. Supply oxygen if breathing is difficult.

Ingestion:

Give one to two glasses of water and induce vomiting.

Never induce vomiting or give anything by mouth to an unconscious person.

Skin:

Wash affected area with mild soap and water. Remove any contaminated clothing.

Eyes:

Flush eyes with water, blinking often for several minutes.

Remove contact lenses if present and easy to do. Continue rinsing

#### **SECTION 5. FIREFIGHTING MEASURES**

Flammability:

Non-flammable

Extinguishing Media:

Do not use water. Use 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.

### **SECTION 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.

#### **SECTION 7. HANDLING AND STORAGE**

Handling Conditions:

Handle under protective gas.

Wash thoroughly after handling.

**Storage Conditions:** 

Store in a cool dry place in a tightly sealed container.

Store under dry inert gas.

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.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Permissible Exposure Limits: N/A

Threshold Limit Value: N/A SpecialEquipment: None

Respiratory Protection: Dust Respirator Protective Gloves: Rubber gloves

Eve Protection:

Safety glasses or goggles, full face protection

**Body Protection:** 

Protective work clothing. Wear close-toed shoes and long sleeves/pants.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Color: Yellow Form: Powder Odor: Odorless

Water Solubility: Reacts Boiling Point: N/A Melting Point: 965°C

Flash Point: N/A

Autoignition Temperature: N/A

Density: 3.87 g/cc

Molecular weight: 101.78 g/mol

#### **SECTION 10. STABILITY AND REACTIVITY**

Stability:

Stable under recommended storage conditions

Reacts With:

Acids, Water/moisture,

Oxidizing agents

Incompatible Conditions:

Water/moisture

Hazardous

Decomposition

Products:

Sulfur dioxide, Hydrogen sulfide, Sulfur oxides,

Metal oxide fume

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Potential Health Effects:

Eyes: Causes severe eye damage. Skin: Causes severe skin burns.

Ingestion:

a strong corrosive effect on mouth and throat to the danger of perforation of esophagus and stomach.

Inhalation: May cause irritation

Chronic:

Gallium and gallium compo9unds may cause metallic taste, dermatitis and depression of the bone

marrow function. Large doses may cause hemorrhagic nephritis.

Signs & Symptoms: N/A

Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: N/A

#### **SECTION 12. ECOLOGICAL INFORMATION**

Aquatic Toxicity: Low

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

Notes: N/A

## **SECTION 13. DISPOSAL CONSIDERATIONS**

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

#### **SECTION 14. TRANSPORT INFORMATION**

Hazardous:

Hazardous for transportation.

Hazard Class:

8 Corrosive substances.

Packing Group: II UN Number: UN3260 Proper Shipping Name:

Corrosive solid, acidic, inorganic, n.o.s. (Gallium sulfide)

#### **SECTION 15. REGULATORY INFORMATION**

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A

Sec 313 Toxic Chemicals: No

# **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.