

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name                      Gallium

CAS number                        7440-55-3

Synonyms                          No information available

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses                    Laboratory chemicals

#### 1.3 Details of the supplier of the safety data sheet

Company                            Lab Alley, LLC  
   12501 Pauls Valley Road  
   Austin, Texas 78737  
   U.S.A.

Telephone                         512-668-9918

Fax                                    512-886-4008

#### 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Corrosive to metals	Category 1
Acute oral toxicity	Category 4

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Warning

Hazard statements

May be corrosive to metals. Harmful if swallowed.

Precautionary statements:

Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Keep only in original container.

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Spills

Absorb spillage to prevent material damage.

Storage

Store in corrosive resistant polypropylene container with a resistant inliner.

Disposal

Dispose of contents/container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Harmful to aquatic life with long lasting effects.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Gallium	-	7440-55-3	<=100%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

If inhaled

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

In case of skin contact

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

In case of eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

If swallowed

Clean mouth water and drink afterwards plenty of water. Get medical attention if symptoms occur.

### 4.2 Most important symptoms and effects, both acute and delayed

None reasonably foreseeable.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media** Alcohol resistant foam. Dry chemical. Dry sand.

**Unsuitable extinguishing media** No information available.

#### 5.2 Specific hazards arising from the substance or mixture

Keep product and empty container away from heat and sources of ignition.

#### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 5.4 Further information

**Flash Point** No data available

**Autoignition Temperature** No information available

##### Explosion limits

**Upper** No data available

**Lower** No data available

**Sensitivity to Mechanical Impact** No information available

**Sensitivity to Static Discharge** No information available

##### NFPA

Health	Flammability	Instability	Physical hazards
1	1	1	N/A

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

#### 6.2 Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

#### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

#### **6.4 Reference to other sections**

See section 2 for full list of hazard and precaution statements.

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

##### **Precautions on safe handling**

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

##### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

#### **7.2 Conditions for safe storage, including any incompatibilities**

##### **Storage conditions**

Keep container tightly closed in a dry and well-ventilated place. Store under an inert atmosphere. To maintain product quality: Keep refrigerated. Incompatible materials.

##### **Incompatibilities**

Strong oxidizing agents, Acids, Halogens, Peroxides, Metals, Strong bases.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1 Occupational exposure limits**

##### **US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

##### **US. ACGIH Threshold Limit Values**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

##### **US. NIOSH: Pocket Guide to Chemical Hazards**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

##### **Biological occupational exposure limits**

No information available

#### **8.2 Exposure controls**

### Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

#### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory protection

No protective equipment is needed under normal use conditions.

#### Control of environmental exposure

No information available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State	Solid
Appearance	Silver
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	29.7 °C / 85.5 °F
Boiling Point/Range	2400 °C / 4352 °F @ 760 mmHg
Evaporation Rate	No information available
Flammability (solid)	No information available
Flammability or explosive limit	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Density	No information available
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temp	No information available
Decomposition Temp	No information available
Viscosity	No information available
Molecular Formula	Ga
Molecular Weight	69.72
VOC Content(%)	No information available

Oxidizing properties

No information available

## 9.2 Other safety information

No information available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None known, based on information available.

### 10.2 Chemical stability

Moisture sensitive.

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.

### 10.5 Incompatible materials

Strong oxidizing agents, Acids, Halogens, Peroxides, Metals, Strong bases

### 10.6 Hazardous decomposition products

None under normal use conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

##### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Gallium	50-300 mg/kg	-	-

##### Skin corrosion/irritation

No information available

##### Serious eye damage/eye irritation

No information available

##### Respiratory or skin sensitization

No information available

##### Germ cell mutagenicity

Mutagenic effects have occurred in humans.

##### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Gallium	7440-55-3	Not listed	Not listed	Not listed	Not listed	Not listed

#### **Specific target organ toxicity - single exposure**

None known

#### **Specific target organ toxicity - repeated exposure**

None known

#### **Reproductive toxicity**

No information available

#### **Chronic effects**

No information available

### **11.2 Additional Information**

No information available

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

Do not empty into drains. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

### **12.2 Persistence and degradability**

Insoluble in water

### **12.3 Bio accumulative potential**

No information available

### **12.4 Mobility in soil**

Is not likely mobile in the environment due to its low water solubility

### **12.5 Results of PBT and vPvB assessment**

No information available

### **12.6 Endocrine disrupting properties**

No information available

### **12.7 Other adverse effects**

No information available

## **SECTION 13: Disposal considerations**

### **13.1 Waste Disposal Methods**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

#### SECTION 14: Transport information

##### DOT (US)

UN-No	UN2803
Proper Shipping Name	GALLIUM
Hazard Class	8
Packing Group	III

##### IMDG

UN-No	UN2803
Proper Shipping Name	GALLIUM
Hazard Class	8
Packing Group	III

##### IATA

UN-No	UN2803
Proper Shipping Name	GALLIUM
Hazard Class	8
Packing Group	III

#### SECTION 15: Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

##### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not listed

##### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed

##### **SARA 304 Emergency release notification**

Not listed

##### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

##### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

###### **SARA 302 Extremely hazardous substance**

Not listed.

###### **SARA 311/312 Hazardous**

See section 2 for more information

###### **SARA 313 (TRI reporting)**

Not listed



#### **Other federal regulations**

##### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not listed

##### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not listed

##### **Safe Drinking Water Act**

Not listed

##### **FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed

#### **US state regulations**

##### **US. Massachusetts RTK - Substance List**

Not listed

##### **US. New Jersey Worker and Community Right-to-Know Act**

Listed

##### **US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed

##### **California Proposition 65**

Not listed

#### **SECTION 16: Other information**

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Revision: 07/03/2025

#### **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.