



Cambridge Isotope Laboratories, Inc.
50 Frontage Road
Andover, MA 01810

Number:
Issue Date

GALM-645
09/13/13

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MATERIAL SAFETY DATA SHEET

1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description GALLIUM-71 SESQUIOXIDE (71GA2)

Cambridge Isotope Laboratories, Inc.
50 Frontage Rd
ANDOVER, MA 01810
USA

E-mail cilsales@isotope.com
Web Site www.isotope.com

Phone Numbers

Emergency Contact Chemtrec
Emergency Phone 1-800-424-9300 (24 hours)

Customer Service 1-800-322-1174 (8:30-5:30 EST)
Phone
Transportation 1-202-483-7616 (24 hours)

2 HAZARDS IDENTIFICATION

OSHA Hazards

No known OSHA hazards

HMIS Ratings

Physical 0
Flammability 0
Health 0

NFPA Codes

Fire 0
Health 0
Reactivity 0

Potential Health Effects

Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.



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3 COMPOSITION / INFORMATION ON INGREDIENTS

Composition / Information on Ingredients

| | |
|------------------|--------------------------------|
| Chemical Formula | Ga ₂ O ₃ |
| Molecular Weight | 187.44 |
| CAS No. | 12024-21-4 (Unlabeled) |
| EC No. | 234-691-7 |

4 FIRST AID MEASURES

First Aid Measures

| | |
|------------------------|---|
| Eyes | Flush eyes with water as a precaution. |
| Ingestion | Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |
| Inhalation | If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician. |
| Skin | Wash with soap and plenty of water. Consult a physician. |
| Additional Information | Move out of dangerous area. Consult a physician and show this safety data sheet. |

5 FIRE FIGHTING MEASURE

Fire Fighting Measures

| | |
|-------------------------|---|
| Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Fire Fighting Equipment | Wear self contained breathing apparatus for fire fighting if necessary. |

6 ACCIDENTAL RELEASE MEASURES

Accidental Release Measures

| | |
|----------------------|--|
| Personal Precautions | Avoid dust formation. Avoid breathing vapors, mist or gas. |
|----------------------|--|



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Environmental Precautions Do not empty into drains.

Methods and materials for containment and cleanup Sweep up and shovel. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

Precautions for Safe Handling

Handling Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for Safe Storage

Storage Store at room temperature away from light and moisture.

8 EXPOSURE CONTROL / PERSONAL PROTECTION

Personal Protection

Eyes - Face Wear safety glasses with side shields (or goggles) and a face shield.

Skin Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory When appropriate, use NIOSH/CEN approved respirator.

Protective Clothing Wear suitable protective clothing and gloves.

Work Hygienic Practices Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties (Unlabeled Compound)

Form Powder

pH No data available

Melting Point No data available

Boiling Point No data available



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| | |
|------------------------------|----------------------------|
| Flashpoint | No data available |
| Lower Explosion Limit | No data available |
| Upper Explosion Limit | No data available |
| Density | 5.88 g/mL at 25 °C (77 °F) |
| Solubility in Water | No data available |
| Auto Ignition Temperature | No data available |

10 STABILITY AND REACTIVITY

Stability and Reactivity

| | |
|---------------------|--|
| Chemical Stability | Stable if stored under recommended conditions. |
| Conditions to Avoid | Not available |
| Materials to avoid | Strong oxidizing agents |

11 TOXICOLOGICAL INFORMATION

Acute Toxicity

| | |
|-------------------------------------|--|
| LD50 Oral Mouse | 10,000 mg/kg Flaccid paralysis without anesthesia, Somnolence, Food intake |
| Serious Damage/Eye Irritation | No data available |

| | |
|------------------------------|-------------------|
| Skin Corrosion/Irritation | No data available |
|------------------------------|-------------------|

| | |
|------------|-------------------|
| Inhalation | No data available |
|------------|-------------------|

| | |
|--------------------------------------|---------------|
| Respiratory or Skin Sensitization | Not available |
|--------------------------------------|---------------|

| | |
|---------------------------|---------------|
| Germ Cell Mutagenicity | Not available |
|---------------------------|---------------|

| | |
|------|--|
| IARC | No component of this product present at levels greater than or equal to 0.1% is identifiable as probable, possible, or confirmed human carcinogen by IARC. |
|------|--|

| | |
|-------|--|
| ACGIH | No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH. |
|-------|--|

| | |
|-----|---|
| NTP | No component of this product present at levels greater than or equal to 0.1% is identifiable as a |
|-----|---|



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OSHA known or anticipated carcinogen by NTP.
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity Not available

Specific Target Organ Toxicity

Single Exposure No data available
Repeated Exposure No data available

Other Information

General Comments Not available

12 ECOLOGICAL INFORMATION

Toxicity

Persistence and Degradability Not available

Bioaccumulative Potential Not available

Mobility in Soil Not available

PBT and vPvB Assessment Not available

Other Adverse Effects Not available

13 DISPOSAL CONSIDERATIONS

Disposal Considerations

Product Disposal Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.

14 TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG



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Special Shipping Notes Not dangerous goods.

15 REGULATORY INFORMATION

Regulatory Information

No known OSHA hazards

SARA

Sara 302 Component No chemicals in this material are subject to the reporting requirements.

Component

Sara 313 Component No chemicals in this material are subject to the reporting requirements.

Component

STATE REGULATIONS

Massachusetts Right to Know No

Pennsylvania Right to Know Yes

New Jersey Right to Know Yes

California Proposition 65 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canada

DSL Status Listed on the Canadian NDSL list.

16 OTHER INFORMATION

Manufacturer Disclaimer This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Approved On 09/13/13
Version Number 2