

Manufacturer: Strem Chemicals, Inc
 7 Mulliken Way
 Newburyport, MA 01950-4098 U.S.A.
 www.strem.com

Strem Customer Service (978) 499-1600
 CHEMTREC (Emergency Only) (800) 424-9300
 Poison Center (800) 562-8236

Section 1: Product Identification	
Chemical Name:	Gallium metal (99.99%)
Product Number:	93-3145
CAS Registry Number:	7440-55-3
Formula:	Ga
EINECS Number:	231-163-8
Chemical Family:	metal or element
Synonym:	none

Section 2: Composition and Information on Ingredients				
Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	7440-55-3	100%	no data	no data

Section 3: Hazards Identification	
Emergency Overview:	Corrosive to eyes, skin and respiratory tract. Ingestion may cause damage to the mouth, throat and esophagus.
Primary Routes of Exposure:	Inhalation
Eye Contact:	Causes burns to the eyes.
Skin Contact:	Causes burns to the skin.
Inhalation:	Corrosive to the nose, mucous membranes and respiratory tract.
Ingestion:	Ingestion may cause damage to the mouth, throat and esophagus.
Acute Health Affects:	Corrosive to skin, eyes and respiratory tract.
Chronic Health Affects:	Equivocal tumorigenic agent by RTECS criteria based on laboratory DNA study.
NTP:	No
IARC:	No
OSHA:	No

SECTION 4: First Aid Measures	
Eye Exposure:	(For dust) Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.
Skin Exposure:	Metal is in the form of an ingot. Skin exposure is not an issue
Inhalation:	(For dust) Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
Ingestion:	Metal is in the form of an ingot. Ingestion is an unlikely occurrence.



MATERIAL SAFETY DATA SHEET

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SECTION 5: Fire Fighting Measures

Flash Point: not applicable
Autoignition Temperature: not applicable
Explosion Limits: not applicable
Extinguishing Medium: Carbon dioxide, foam, or dry powder.
Special Fire Fighting Procedures: If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus.
Hazardous Combustion and Decomposition Products: Burning metal may produce fumes of gallium oxide.
Unusual Fire or Explosion Hazards: None

SECTION 6: Accidental Release Measures

Spill and Leak Procedures: Not applicable. Material is a metal ingot.

SECTION 7: Handling and Storage

Handling and Storage: Store in a tightly sealed container. Do not store in a glass bottle since expansion on freezing may break glass.
Corrosive to metal containers made of light alloys and metals especially aluminum alloys.

SECTION 8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection: Wear protective clothing and gloves. Consult with glove manufacturer to determine the proper type of glove.
Ventilation: The material is an ingot. No ventilation required.
Respirator: No respirator required.
Ventilation: The material is an ingot. No ventilation required.
Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form:
Molecular Weight: 69.72
Melting Point: 29.78°
Boiling Point: 2403°
Vapor Pressure: no data
Specific Gravity: 5.904
Odor: none
Solubility in Water: Insoluble

SECTION 10: Stability and Reactivity

Stability: air and moisture stable
Hazardous Polymerization: no hazardous polymerization
Conditions to Avoid: none
Incompatibility: Halogens, strong acids, strong bases, sulfur, phosphorous.
Decomposition Products: none

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SECTION 11: Toxicological Information

RTECS Data: Human Lymphocyte; DNA inhibition: 480 umol/L.
Carcinogenic Effects: Tumorigen
Mutagenic Effects: No data
Tetratogenic Effects: No data

SECTION 12: Ecological Information

Ecological Information: No data

SECTION 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name (CFR): Gallium
Hazard Class (CFR): 8
Additional Hazard Class (CFR): NA
Packaging Group (CFR): III
UN ID Number (CFR): UN# 2803
Shipping Name (IATA): Gallium
Hazard Class (IATA): 8
Additional Hazard Class (IATA): NA
Packaging Group (IATA): III
UN ID Number (IATA): UN# 2803

SECTION 15: Regulatory Information

TSCA: Listed in the TSCA inventory
SARA (Title 313): Title compound not listed
Second Ingredient: none
Third Ingredient: none

SECTION 16: Other Information

Disclaimer: The information herein is believed to be accurate and reliable as of the date compiled. However, Strem Chemicals, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information.

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