




<a href="#">Gallium Indium Eutectic</a>		<a href="#">Pricing &gt;</a>
<b>Signal Word</b>	Danger	
<b>Hazard Statements</b>	H290-H302-H372-H412	
<b>Hazard Codes</b>	C, Xi, Xn	
<b>Precautionary Statements</b>	P234-P260-P264-P273-P301+P312-P314	
<b>Risk Codes</b>	N/A	
<b>Safety Statements</b>	N/A	
<b>Transport Information</b>	UN 2803 8 / PGIII	
<b>GHS Pictograms</b>	<a href="#">GHS05 Corrosive</a>  <a href="#">GHS07 Exclamation Point</a>  <a href="#">GHS08 Health Hazard</a> 	

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## SAFETY DATA SHEET

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### SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #37345-62-3

**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  
Fax: +1 310-208-0351

Emergency telephone number:  
Domestic, North America +1 800-424-9300  
International +1 703-527-3887

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## SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture  
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)  
Corrosive to Metals (Category 1), H290  
Acute toxicity, Oral (Category 4), H302  
Specific target organ toxicity - repeated exposure, Inhalation (Category 1), Lungs, H372  
Short-term (acute) aquatic hazard (Category 3), H402  
Long-term (chronic) aquatic hazard (Category 3), H412  
For the full text of the H-Statements mentioned in this Section, see Section 16.  
GHS Label elements, including precautionary statements  
Pictogram



Signal word Danger  
Hazard statement(s)  
H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H372 Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.  
H412 Harmful to aquatic life with long lasting effects.  
Precautionary statement(s)  
P234 Keep only in original container.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
P314 Get medical advice/ attention if you feel unwell.  
P390 Absorb spillage to prevent material damage.  
P406 Store in corrosive resistant container with a resistant inner liner.  
P501 Dispose of contents/ container to an approved waste disposal plant.  
Hazards not otherwise classified (HNOC) or not

covered by GHS - none

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

Mixtures  
Gallium  
CAS-No. 7440-55-3  
EC-No. 231-163-8  
Indium  
CAS-No. 7440-74-6  
EC-No. 231-180-0

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

Description of first-aid measures  
General advice  
Show this material safety data sheet to the doctor in attendance.  
If inhaled  
After inhalation: fresh air. Call in physician.  
In case of skin contact  
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
In case of eye contact  
After eye contact: rinse out with plenty of water.  
Remove contact lenses.  
If swallowed  
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.  
Most important symptoms and effects, both acute and delayed  
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11  
Indication of any immediate medical attention and special treatment needed  
No data available

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

Extinguishing media  
Suitable extinguishing media  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Unsuitable extinguishing media  
For this substance/mixture no limitations of

extinguishing agents are given.  
Special hazards arising from the substance or mixture  
gallium oxides  
Not combustible.  
Ambient fire may liberate hazardous vapours.  
Advice for firefighters  
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.  
Further information  
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures  
Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.  
For personal protection see section 8.  
Environmental precautions  
Do not let product enter drains.  
Methods and materials for containment and cleaning up  
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.  
Reference to other sections  
For disposal see section 13.

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

Precautions for safe handling  
Work under hood. Do not inhale substance/mixture. For precautions see section 2.2.  
Conditions for safe storage, including any incompatibilities  
Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.  
Storage class (TRGS 510): 6.1D: Non-combustible,

acute toxic Cat.3 / toxic hazardous  
materials or hazardous materials causing chronic  
effects  
Specific end use(s)  
Apart from the uses mentioned in section 1.2 no other  
specific uses are stipulated

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

Exposure controls  
Appropriate engineering controls  
Immediately change contaminated clothing. Apply  
preventive skin protection. Wash  
hands and face after working with substance.  
Personal protective equipment  
Eye/face protection  
Use equipment for eye protection tested and  
approved under appropriate  
government standards such as NIOSH (US) or EN  
166(EU). Safety glasses  
Skin protection  
Handle with gloves. Gloves must be inspected prior to  
use. Use proper glove  
removal technique (without touching glove's outer  
surface) to avoid skin contact  
with this product. Dispose of contaminated gloves  
after use in accordance with  
applicable laws and good laboratory practices. Wash  
and dry hands.  
Body Protection  
protective clothing  
Respiratory protection  
required when dusts are generated.  
Our recommendations on filtering respiratory  
protection are based on the following  
standards: DIN EN 143, DIN 14387 and other  
accompanying standards relating to  
the used respiratory protection system.  
Control of environmental exposure  
Do not let product enter drains.

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

Information on basic physical and chemical properties  
a) Appearance Form: liquid  
Color: silver  
b) Odor No data available  
c) Odor Threshold No data available  
d) pH No data available

e) Melting  
point/freezing point  
Melting point/range: 15.7 °C (60.3 °F) - lit.  
f) Initial boiling point  
and boiling range  
No data available  
g) Flash point (°) No data available  
h) Evaporation rate No data available  
i) Flammability (solid, gas)  
The product is not flammable.  
j) Upper/lower flammability or explosive limits  
No data available  
k) Vapor pressure No data available  
l) Vapor density No data available  
m) Relative density 6.25 g/cm<sup>3</sup> at 25 °C (77 °F)  
n) Water solubility No data available  
o) Partition coefficient:  
n-octanol/water  
No data available  
p) Autoignition  
temperature  
Not applicable  
q) Decomposition temperature  
No data available  
r) Viscosity No data available  
s) Explosive properties No data available  
t) Oxidizing properties No data available  
Other safety information  
No data available

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

Reactivity  
No data available  
Chemical stability  
The product is chemically stable under standard  
ambient conditions (room temperature) .  
Possibility of hazardous reactions  
No data available  
Conditions to avoid  
no information available  
Incompatible materials  
Strong oxidizing agents Strong oxidizing agents Metals  
Hazardous decomposition products  
Other decomposition products - No data available  
Hazardous decomposition products formed under fire  
conditions. - gallium oxides  
In the event of fire: see section 5

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## **SECTION 11. TOXICOLOGICAL**

## INFORMATION

Information on toxicological effects

Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

Mixture causes damage to organs through prolonged or repeated exposure. - Lungs

Aspiration hazard

No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available  
Mobility in soil  
No data available  
Results of PBT and vPvB assessment  
PBT/vPvB assessment not available as chemical  
safety assessment not required/not  
conducted  
Other adverse effects  
No data available

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods  
Product  
Waste material must be disposed of in accordance  
with the national and local No mixing  
with other waste. Handle uncleaned containers like  
the product See  
[www.retrologistik.com](http://www.retrologistik.com) for processes regarding the  
return of chemicals and containers, or  
contact us there if you have further questions.

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## **SECTION 14. TRANSPORT INFORMATION**

DOT (US)  
UN number: 2803 Class: 8 Packing group: III  
Proper shipping name: Gallium  
Reportable Quantity (RQ):  
Poison Inhalation Hazard: No  
IMDG  
UN number: 2803 Class: 8 Packing group: III EMS-  
No: F-A, S-B  
Proper shipping name: GALLIUM  
IATA  
UN number: 2803 Class: 8 Packing group: III  
Proper shipping name: Gallium

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## **SECTION 15. REGULATORY INFORMATION**

SARA 302 Components  
This material does not contain any components with a  
section 302 EHS TPQ.  
SARA 313 Components  
This material does not contain any chemical  
components with known CAS numbers that  
exceed the threshold (De Minimis) reporting levels  
established by SARA Title III, Section  
313.



SARA 311/312 Hazards  
Acute Health Hazard  
Massachusetts Right To Know Components  
No components are subject to the Massachusetts  
Right to Know Act.  
No components are subject to the Massachusetts  
Right to Know Act.  
Pennsylvania Right To Know Components  
Gallium“Indium eutectic CAS-No. -  
Revision Date  
New Jersey Right To Know Components

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## **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.

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