# **SAFETY DATA SHEET on Gallium Metal**

SDS No. MH10-70-006

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1. Chemical Product

SDS Name : Gallium 99.99%

2. Composition, Information on ingredients

CAS# : 7440-55-3 EINECS# : 231-163-8

Chemical formular : Ga

3. Hazardous Identification

Appearance : Grev

Warning! Causes respiratory tract irritation. May cause digestive tract irritation. Moisture sensitive.

Cause eye and skin irritation.

Target Organs : None known

**Potential Health Effects** 

Eye : Cause eye irritation

Skin : Cause skin irritation. May cause contact dermatitis.

Ingestion : May cause gastrointestinal irritation with nausea, vomiting and

diarrhea.

Inhalation : Cause respiratory tract irritation

Chronic : May cause bone marrow abnormalities with damage to blood forming

tissues.

GHS:



Signal Word: Danger

4. First Aid measures

Eye : Immediately flush eyes with plenty of water for at least 15 minutes,

Occasionally lifting the upper and lower eyelids. Get medical aid.

Skin : Get medical aid. Flush skin with plenty of soap and water for at least

15minutes while removing contaminated clothing and shoes.

Ingestion : Never give anything by mouth to an unconscious person. Get medical

aid. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk

or water.

Inhalation : Remove from exposure to fresh air immediately. If not breathing, give

artificial respiration. Get medical aid.

5. Fire fighting measures

General information : As in any fire, wear a self-contained breathing apparatus in

pressure-demand. MSHA/NIOSH(approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be

generated by thermal decomposition or combustion.

Extinguish media : Do not get water inside containers. In case of fire use water spray, dry

chemical, carbon dioxide, or appropriate foam. Do not direct water at

the heated material.

6. Accidental Release Measures

General Information : Use proper personal protective equipment as indicated section 8.

Spills/Leaks : Avoid run off into storm sewers and ditched which lead to waterways.

Clean up spills immediately, observing precautions in the protective equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating

dusty condition.

7. Handling and Storage

Handling : Wash thoroughly after handling. Avoid contact with eyes, skin, and

clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Do not allow contact with water. Wash clothing before reuse. Keep from contact with moist air and steam.

Storage : Store in a tightly closed container. Store in a cool, dry, well-ventilated

area away from incompatible substances. Refrigerator(Approx 4°C).

Store protected from moisture.

8. Exposure controls, personal protection

Engineering controls : Facilities storing or utilizing this material should be equipped with an

eyewash facility and a safety shower. Use adequate ventilation to

keep airborne concentration low.

Exposure limits : ACGIH none listed

NIOSH none listed OSHA none listed

OSHA Vacated PELs : Gallium-No OSHA vacated ate listed for this chemical

Personal protective equipment

Eyes-Wear appropriate protective eyeglasses or chemical safety

goggles as described by OSHA's eye and face protection regulations in

29 CFR 1910.133.

Skin-Wear appropriate protective gloves to prevent skin exposure.

Clothing-Wear appropriate clothing to prevent skin exposure.

9. Physical and Chemical Properties

Physical state : Solid Appearance : Grey

Odor : Not available pH : Not available Vapor pressure : Not available Vapor density : Not available

Boiling point : 2,400°C

Melting point : 29°C

Flash point : Not available

Molecular formula : Ga

Molecular weight : 69.72

10. Stability and Reactivity

Chemical Stability : Stable at room temperature in closed containers under normal

storage and handling condition.

Conditions to avoid : Incompatible materials, dust generation, moisture, excess heat.

**Incompatibilities with other materials** 

: Halogens, phosphorus, sulfur, hydrogen peroxides, hydrochloric acid,

moisture.

**Hazardous Decomposition products** 

Irritating and toxic fumes and gases

11. Toxicological Information

RTECS# : CAS#7440-55-3: LW8600000

LD50/LC50 : Not available

Carcinogenicity : No information available
Epidemiology : No information available
Teratogenicity : No information available
Reproductive Effects : No information available

Other Studies : DNA inhibition(human Lymphocyte)=480 umol/L

## 12. Ecological Information

Product not tested.

# 13. Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classify as a hazardous waste. US EPA guidelines for a classification determination are listed in 40CFR part additionally, waste generators must consult state and local hazardous waste regulation. Ensure complete and accurate classification.

## 14. Transport information

US DOT

Shipping name : Gallium

Hazard class : 8
UN number : 2803
Packing group : III
Marine Pollutant : No

# 15. Regulatory Information

**US Federal** 

**TSCA** 

CAS#7440-55-3 is listed on the TSCA inventory.

Health&Safety reporting list

None of the chemicals in this product are under a Chemical Test rule.

Section 12b

None of the chemicals are listed under TSCA section 12b.

**TSCA Significant New Use Rule** 

None of the chemicals in this material have SNUR under TSCA.

#### **SARA**

Section 302(RQ)

None of the chemicals in this material have an RQ.

Section302(TPQ)

None of the chemicals in this product have a TPQ.

Section313

No chemicals are reportable under section 313.

## Clean air act

This material does not contain any hazardous air pollutants, Class 1 Ozone depletors, Class 2 ozone depletors.

## Clean water act

None of chemicals in this product are listed as Hazardous substances under the CWA, Priority pollutants under CWA and Toxic pollutants under UWA.

## **OSHA**

None of the chemicals in this product are considered highly hazardous by OSHA.

**EC Classification, Packaging and Labeling Requirements:** 

**Symbol and Hazard Classification of Product** 

Risk Phrases: R34 Causes burns

**Safety Phrases:** 

S20/21 When using do not eat, drink or smoke

S22 Do not breathe dust S23 Do not breathe fumes

S24/25 Avoid contact with skin and eyes

S28 After contact with skin wash immediately with plenty of soap and water

S36/37/39 Wear suitable protective clothing, gloves and eyes/face protection

S62 If swallowed, do not induce vomiting seek medical advice immediately and show container

Label

# 16. Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost damages, howsoever arising, even if the company has been advised of the possibility of such damages.