

INDIUM CORPORATION OF AMERICA @\EUROPE@\ASIA-PACIFIC@ INDIUM CORPORATION (SUZHOU) @ SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: GALLIUM OXIDE

SDS Number: SDS- 4327 Revised Date: 21 JANUARY 2015

Industrial Use Only - Inorganic oxide

MANUFACTURER:

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2. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY: Carcinogen listed in

XEye XInhalation XSkin XIngestion NTP IARC OSHA XNot Listed

No GHS hazards.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P270 Do not eat, drink or smoke when using this product

P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection

P362 Take off contaminated clothing and wash before reuse

P301 + P314 IF SWALLOWED: Get Medical advice/attention if you feel unwell

P302 +P352 IF ON SKIN: Wash with plenty of soap and water

P304 + 341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable

for breathing

P305 + 351 IF IN EYES: Rinse continuously with water for several minutes (15 mins)

POTENTIAL HEALTH EFFECTS:

Eye Contact: May cause eye irritation.

Ingestion: May be harmful.

Inhalation: May cause irritation to upper respiratory tract.

Skin Contact: May be harmful if absorbed through the skin.

Chronic: No information available

Note: The Indium Corporation does not recommend, manufacture, market or endorse any of it's

product's for human consumption.

Warning: This product contains a chemical known to the State of California to cause cancer and/or

birth defects (or other reproductive harm). (trace levels of lead)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components % wt CAS Registry # PEL TLV-TWA TLV-STEL mg/m³ mg/m³ mg/m³ mg/m³

GALLIUMOXIDE 100 12024-21-4/234-691-7 N.E. N.E. N.E. N.E.

N.E. = Not established

Formula: Ga₂O₃

4. FIRST AID MEASURES

Eye Contact: Hold eyelids apart and flush eyes with plenty of tepid water for at least 15 minutes. Seek medical

attention if irritation persists.

Ingestion: If patient is conscious, ONLY induce vomiting as directed by trained personnel. NEVER give

anything by mouth to an unconscious person. Seek medical attention immediately.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel.

Seek immediate medical attention.

Skin Contact: Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before

reuse. If irritation persists, obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: NA Method: Auto-ignition Temperature: Not established.

Flammable Limits: Limits not established, not flammable. Avoid dust generation.

Extinguishing Media: Use extinguishers appropriate for the surrounding fire conditions, such as water

spray all purpose-type foam or dry chemical.

Special Fire Fighting Firefighters must wear NIOSH approved or equivalent self-contained breathing

Procedures: apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Wear a respirator and appropriate Personal Protective (See Exposure

Controls/Personal Protective Section) Avoid dust generation. Vacuum spills.

Ventilate area.

Dispose of following all Federal, State and Local regulations.

7. HANDLING AND STORAGE

HandlingKeep containers tightly closed when not in use. Use care to avoid spills. Avoid breathing **Precautions:**vapors from heated material. Avoid contact with eyes, skin and clothing. Use with adequate

ventilation. Avoid dust generation.

Storage Precautions: Store product in tightly capped original containers in a cool, dry area. Keep away from heat

and flame. Store away from incompatible materials. Empty containers may be hazardous as

they contain product residue.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Good general exhaust ventilation should be sufficient to control airborne levels.

Personal protection:

Eyes: Chemical safety glasses/goggles.

Respirator: An authority approved or compliant marked air-purifying respirator with a fume/dust cartridge is

recommended under certain circumstances where airborne concentrations are expected to be

elevated. Dust mask may be worn depending on work conditions.

Skin: Compatible chemical resistant gloves. Protective outer garment, apron and sleeves as appropriate.

Other: Eyewash fountain in work area. Avoid the use of contact lenses in high fume/dust areas.

Work/Hygienic Maintain good housekeeping. Clean up spills immediately.

Practices: Avoid eating, smoking or drinking in the work area. Wash hands thoroughly with soap and water

immediately upon leaving the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White, fine powder **Boiling Point:** Not applicable. Odor: Slight characteristic odor. **Melting Point:** Not applicable **Specific Gravity:** 5.88 g/cm3 pH: Not applicable **Vapor Pressure:** Not applicable. Solubility in Water: Not established

Vapor Density: (air=1) Not applicable. Molecular Weight: 187.44

10. STABILITY AND REACTIVITY

General: Stable.

Conditions to Avoid: Strong oxidizing agents

Incompatible Materials: Not established

Hazardous Decomposition /

on / Unknown

Combustion:

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No

OSHA: No IARC: No

LD50: Not established. LC50: Not established.

Other: RTECS Number: LW9650000

12. ECOLOGICAL INFORMATION

No testing information available.

13. DISPOSAL CONSIDERATION

Waste Disposal Method: Dispose of in accordance with all Federal, State and Local environmental regulations.

In Europe follow the Special Waste Regulations.

14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements. Not regulated under US DOT (United States Department of Transportation). Non hazardous under shipping modes.

UN- None

North American Emergency Guide Book - Not classified

15. REGULATORY INFORMATION

The information in this Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated hereunder (29 CFR 1910.1200 ET. SEQ.).

This product has been classified in accordance with the hazard criteria of the Mexican regulations: NOM-018-STPS-2000 and NOM-010-STPS-1999.

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR).

WHMIS: Not classified because of insufficient information.

This product has been classified in accordance with the guidelines set by the Dept of Industrial Health of the Republic of Singapore.

Warning – California Safe Drinking Water Standard, Prop 65: This product contains a chemical known to the State of California to cause cancer and/or birth defects (or other reproductive harm). (trace levels of listed metals)

SARA 313 Listing - 40 CFR 372.65 - None

All ingredients are listed on the EPA TSCA Inventory.

Safety Phrases:

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

S24/25 Avoid contact with skin and eyes

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

S7 Keep container tightly closed

16. OTHER INFORMATION

HMIS Hazard Rating: Health: 0

Fire: 0 Reactivity: 0

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Approved by: Nancy Swarts, Indium Corporation of America

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