# **GHS Safety Data Sheet**

SDS No.: GAI01PAEG Date Issued: 2013/11/04

# Section 1. Identification of the substance or mixture and of the supplier

#### 1.1 Product Information

# Product name: GaP Gallium phosphide

Product number:	Purity	Form	Size (mm) or Shape
GAI04PB	<99.999% (5N)	powder	_
GAI05GB	<99.999% (5N)	lumps	_

### 1.2 Company Information:

Manufacturer: Kojundo Chemical Laboratory Co., Ltd

1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284

Phone: +81-49-284-1511 Fax: +81-49-284-1351

Emergency Phone: +81-49-284-1511

#### Section 2. Hazards identification

#### **GHS** Classification

Health Hazards	Environmental Hazards	Physical Hazards	
No data available	No data available	No data available	

### GHS Label:

Pictograms or symbols

No data available

Warning word: Not applicable		
Hazard information	Description of precaution	
Not applicable	Not applicable	

#### Additional hazard information:

See each section for reference.

# Section 3. Composition / information on ingredients

Chemical or common name: Gallium phosphide

Chemical formula: GaP

Single Substance or Compound: Single substance

Composition: 100%

CAS #: 12063-98-8

RTECS#: LW9675000

TSCA inventory: listed EINECS: 2350572

### Section 4. First aid measures

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for

at least 15 minutes and get medical attention.

Skin contact: Promptly flush contaminated skin with soap or mild detergent and water.

Contact physician if irritation continues.

Inhalation: Remove the exposed person immediately and provide fresh air.

Get medical attention.

Ingestion: Rinse mouth and throat with water. Get medical attention immediately.

## Section 5. Fire fighting measures

Extinguishing media: Not applicable. Use media appropriate for surrounding fire.

Fire fighting: Wear self contained breathing apparatus and protective clothing for fire fighting

if necessary.

Specific hazards arising from the chemical:

In case of fire, may liberate toxic gases/ fume.

Combustion products: Oxide of phosphorus, gallium oxides.

#### Section 6. Accidental release measures

Personal Precautions: Workers should use protective wears to prevent contact with the spilt adhesive

and inhalation of its dusts.

Environmental hazard precautions:

Shut off leak if without risk.

Prevent flow out to river, etc. so as not to badly affect.

Method for containment and cleaning up:

Indoor leakage: Ventilate as much as possible until the cleaning is completed.

Outdoor leakage: Work from the windward and evacuate the leeward crowd.

Gather up, pack in closed container as much as possible. Carefully collect remnant and move to a safe place.

# Section 7. Handling and storage

#### Precautions to be taken in handling:

Safe handling: Handling worker wears suitable protective clothing, and use local ventilation

equipment.

Precautions to be taken in storage:

General precautions: Keep container or bottle tightly closed.

Store in a cool, dry place away from incompatible materials.

# Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH(2013): No data available

OSHA (2006): No data available

Facility measures: (In case of dust generating work)

Local ventilation of closed work room or total proper ventilation to prevent inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, face shields,

protective gloves.

(In case of dust generating work.)

Wear appropriate NIOSH/MSHA-approved respirator, air-supplied respirator,

safety goggles, face shields, protective gloves, protective clothing, apron, including boots.

## Section 9. Physical and chemical properties

Insoluble

Color and Form: Orange solid, odorless.

Chemical formula: GaP Formula weigh 100.7 Melting point:  $1465 \,^{\circ}\text{C}$ 

Boiling point: No data available

Density: 4.138 g/cm<sup>3</sup>

Flammable: Difficult to ignite.

Oxidation: None

# Section 10. Stability and reactivity

Stability: Stable in closed container.

Reactivity

Water solubility

Dust explosion: Fine powder may form explosive mixtures in air.

Incompatibility: Strong acids.

Condition to avoid: No data available

Hazardous decomposition products.:

Oxide of phosphorus, gallium oxides.

# Section 11. Toxicological information

Acute toxicity: GHS: No data available

GaP oral mouse  $LD_{50} = 8000$  mg/kg (RTECS(2009))

Skin corrosive / irritation:

GHS: No data available
Serious eyes damage / eye irritation:

GHS: No data available
Reproductive toxicity:

GHS: No data available

Specific target organ toxicity

-single exposure: GHS: No data available

Specific target organ toxicity

-repeated exposure: GHS: No data available

Aspiration hazard: GHS: No data available

Other cautions: Mechanical stimulation by dust affects eyes, skin and respiratory system

### Section 12. Ecological information

Ecotoxicity:

Hazards to the aquatic environment

-acute toxicity: GHS: No data available

-chronic toxicity: GHS: No data available

Hazrdous the ozone layer: GHS: No data available

No Freon or Halon

Fish toxicity: No data available
Degradability: No data available
Bioaccumulative potential: No data available

ref.) Ga: Biological half-life 6 day, Rate of absorption Oral=0.001 Respiratory tract=0.25

Degradability: No data available

#### Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed

'Industrial Waste Haulers' for disposal of waste.

# Section 14. Transport information

UN classification: Non-hazards

UN number: None
HS code: 2848.00
Marine pollution: None

Precautions: Container should be transported in a secure position, in a well-ventilated vehicle.

# Section 15. Regulatory information

TSCA inventory: listed.

Please refer to any other local / national measures that may be relevant.

#### Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.