

# XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Germanium Phosphide

1. Product and Company Identification

Trade Name: Germanium Phosphide

Chemical Formula: GeP

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H315: Causes skin irritation

H319: Causes serious eye irritation H335: May cause respiratory irritation

Precautionary Statements: P261: Avoid breathing dust/fume/gas/mist/vapors/spray

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

protection

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do–  $\,$ 

continue rinsing P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 1 Physical: 1

3. Composition					
Chemical Family:	Ceramic				
Additional Names:	N/A				
Germanium Phosphide (GeP):					
Percentage:	100 wt%				
CAS #:	N/A				
EC #:	N/A				
	4. First Aid Procedures				
General Treatment:	Seek medical attention if symptoms persist.				
Special Treatment:	None				
Important Symptoms:	None				
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.				
	Keep patient warm. Seek immediate medical attention.				
Ingestion:	Seek immediate medical attention.				
Skin:	Immediately wash affected area with mild soap and water. Remove any				
Errori	contaminated clothing. Seek immediate medical attention.				
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek				
	immediate medical attention.				
	ininiculate incureal attention.				
	5. Firefighting Measures				
Flammability:	Non-flammable, except as powder				
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for				
Spec. Fire Fighting Procedure:	surrounding material and type of fire.  Use full-face, self-contained breathing apparatus with full protective				
Spec. File Fighting Flocedure.	clothing to prevent contact with skin and eyes. See section 10 for				
	decomposition products.				
	6. Accidental Release Measures				
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in				
	special protection information. Keep unprotected persons away. Isolate				
	spill area and provide ventilation. Vacuum up spill using a high				
	efficiency particulate absolute (HEPA) air filter and place in a closed				
English and the section of	container for disposal. Take care not to raise dust.				
Environmental Precautions:	Isolate runoff to prevent environmental pollution.				
	7. Handling and Storage				
Handling Conditions:	Avoid contact with skin and eyes. Wash thoroughly after handling.				
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Do not store				
	together with acids. Store away from water/moisture. Store apart from				
XX 1 0X X	materials and conditions listed in section 10.				
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before				
	eating and smoking. Do not blow dust off clothing or skin with				
Ventilation:	compressed air.  Provide sufficient ventilation to maintain concentration at or below				
threshold limit.					
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8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A
Threshold Limit Value: N/A

Special Equipment: Properly operating chemical fume hood designed for hazardous

chemicals and having an average face velocity of at least 100 feet per

minute

Respiratory Protection:
Protective Gloves:
Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color N/A

Form: Powder, Granules

Odor:
Water Solubility:
N/A
Boiling Point:
Melting Point:
Flash Point:
N/A
Autoignition Temperature:
N/A
N/A
N/A

Molecular weight: 103.61 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions Reacts With: Contact with acid liberates very toxic gas.

Incompatible Conditions: Water/moisture

Hazardous Decomposition Products: Metal oxide fume, hydrogen phosphide, phosphorus oxides

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation
Skin: Causes skin irritation
Ingestion: May cause irritation

Inhalation: May cause respiratory irritation

Chronic: Inorganic phosphorus compounds may cause irritation and

hemorrhages in the stomach as well as liver and kidney damage. Bone structure may be attacked, especially the jaw and teeth. Phosphine, if generated, is a very toxic, flammable gas. The chief effects are central nervous system depression and lung irritation. Inhalation can cause

coma and convulsions leading to death within 48 hours.

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: IARC: No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by

NIF.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

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Aquatic Toxicity: N/A
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A

Very Persistent, Very Bioaccumulative: Notes:

Do not allow material to be released to the environment without official

permits.

Do not allow undiluted product or large quantities to reach

groundwater, water courses, or sewage systems.

Avoid transfer into the environment.

### 13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

## 14. Transportation Data

Hazardous:
Not hazardous for transportation.
Hazard Class:
N/A
Packing Group:
N/A
UN Number:
N/A
Proper Shipping Name:
N/A

### 15. Regulatory Information

Sec 302 Extremely Hazardous:

No
Sec 304 Reportable Quantities:

N/A
Sec 313 Toxic Chemicals:

No

### 16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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