SECTION 1. IDENTIFICATION

Product Identifier: (5N) 99.999% Germanium Arsenide Powder

Product Code: GE-AS-05-P

CAS Number: 12271-72-6

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: +1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

HMIS
Health Ratings (0-4):
Health: 3
Flammability: 1
Physical: 1

Signal Word: Danger

Hazard Statements:
H301+H331: Toxic if swallowed or if inhaled
H319 Causes serious eye irritation

Precautionary Statements:
P261 Avoid breathing dust/fume/vapor
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P311: Call a POISON CENTER or doctor/physician
P321: Specific treatment
P405: Store locked up
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family: Ceramic
Additional Names: None
Germanium arsenide (GeAs):
Percentage: 100 wt%
CAS#: 12271-72-6
EC #: 235-547-6

SECTION 4. FIRST AID MEASURES

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. Remove breathing apparatus only after contaminated clothing has been completely removed.
Ingestion:
Do not induce vomiting. Seek immediate medical attention.
Skin:
Wash affected area with mild soap and water. Remove any contaminated clothing.
Eyes:
Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

SECTION 5. FIREFIGHTING MEASURES

Flammability:
Non-flammable
Extinguishing Media:
Do not use water for metal fires – use extinguishing powder.
Spec. Fire Fighting Procedure:
Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes.
See section 10 for decomposition products.

SECTION 6. ACCIDENTAL RELEASE MEASURES

If Material Is Released/Spilled:
Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high
efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. 
Take care not to raise dust. 
Environmental Precautions: 
Isolate runoff to prevent environmental pollution.

SECTION 7. HANDLING AND STORAGE

Handling Conditions:
Handle under dry protective gas. 
Wash thoroughly after handling. 
Storage Conditions: 
Store in a cool dry place in a tightly sealed container. 
Store under dry inert gas. 
Store apart from 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 compressed air. 
Ventilation: 
Provide sufficient ventilation to maintain concentration at or below threshold limit.

SECTION 8. EXPOSURE CONTROLS/PERSO...
Odorless
Water Solubility: Insoluble
Boiling Point: N/A
Melting Point: N/A
Flash Point: N/A
Autoignition Temperature: N/A
Density: N/A
Molecular weight: 147.56 g/mol

SECTION 10. STABILITY AND REACTIVITY

Stability:
Stable under recommended storage conditions
Reacts With:
Acids, Halogens, Oxidizing agents
Incompatible Conditions:
Air
Hazardous Decomposition Products:
Metal oxide fume

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects:
Eyes:
May cause irritation
Skin:
May cause irritation
Ingestion:
Toxic
Inhalation:
Toxic
Chronic:
N/A
Signs & Symptoms:
N/A
Aggravated Medical Conditions:
N/A
Median Lethal Dose:
145 mg/kg for mouse by mouth as As
769 mg/kg for rat by mouth as As
Carcinogen:
Arsenic:
EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a causal association between exposure and cancer
SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity:
High
Persistent Bioaccumulation Toxicity:
No
Very Persistent, Very Bioaccumulative:
No
Notes:
Very toxic for aquatic organism.
May cause long lasting harmful effect on aquatic life.
Do not allow material to be released to the environment without official permits.
Do not allow product to reach any water sources.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Do not allow undiluted product or large quantities to reach groundwater, water courses, or sewage systems.
Avoid transfer into the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

Hazardous:
Hazardous for transportation.
Hazard Class:
6.1 Toxic substances.
Packing Group: II
UN Number: UN1557
Proper Shipping Name: Arsenic compounds, solid, inorganic, n.o.s. (Germanium arsenide)

SECTION 15. REGULATORY INFORMATION

Sec 302 Extremely Hazardous:
No
Sec 304 Reportable Quantities:
N/A
Sec 313 Toxic Chemicals:
Components: Arsenic
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 1997-2019 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.