



# Super Conductor Materials, Inc.

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Chemtrec: (800) 424-9300

Poison Center: (800) 562-8236

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## SAFETY DATA SHEET

Identity: Germanium Nitride

Formula: Ge<sub>3</sub>N<sub>4</sub>

### SECTION I - GENERAL INFORMATION

Manufacturer: Super Conductor Materials, Inc.

The information below is believed to be accurate and represents the best information available to Super Conductor Materials, Inc. However, SCM makes no warranty, expressed or implied with respect to such information and assumes no liability resulting from its use.

### SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Molecular weight: 273.80

| CAS #      | OSHA PEL | ACGIH TLV | %   |
|------------|----------|-----------|-----|
| 12065-36-0 | N/A      | N/A       | N/A |

### SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: N/A

Melting Point: 450°C

Evaporation Rate: N/A

Solubility in water: N/A

Vapor Pressure (vs. air or mmHg): N/A

Density: 5.25 g/cm<sup>3</sup> at 25.0°C (77°F)

Flash Point: N/A

*Appearance and odor:* White to brown powder

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

*Method Used:* N/A

*Explosive Limits:* LEL: N/A

UEL: N/A

*Extinguishing Media:* Use suitable extinguishing agent for surrounding material and type of fire

#### *Special Fire Fighting Procedures:*

Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

#### *Unusual fire and explosion hazards:*

Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NO<sub>x</sub>), Germanium oxides



**SECTION V - REACTIVITY DATA**

*Stability:* Stable under recommended storage conditions

*Conditions to avoid (instability):* Avoid moisture

*Incompatibility:* Strong oxidizing agents

*Hazardous Decomposition or byproducts:* Hazardous decompositions products formed under fire conditions: nitrogen oxides (NO<sub>x</sub>), and Germanium oxides

*Hazardous Polymerization:* No data available

*Conditions to avoid (hazardous polymerization):* No data available

**SECTION VI - HEALTH HAZARD DATA**

Routes of entry: Inhalation? Yes      Skin? Yes      Eyes? Yes      Ingestion? Yes      Other? No

Signs and Symptoms of Overexposure:

*Inhalation:* May be harmful if inhaled. May cause respiratory tract irritation.

*Ingestion:* May be harmful is swallowed

*Skin:* May be harmful is absorbed through skin. May cause skin irritation

*Eyes:* May cause eye irritation

Health Hazards (Acute and Chronic):

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

*Target Organs:* Inhalation bay cause respiratory irritation

*Carcinogenicity:* NTP? No      LARC Monographs? No      OSHA Regulated? No

*Medical Conditions Aggravated by Exposure:* None recorded

Emergency and First Aid Procedures:

*Inhalation:* Remove victim to fresh air, keep warm and quiet, and give oxygen if breathing is difficult; seek medical attention

*Ingestion:* Give 1-2 glasses of milk or water and induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person

*Skin:* Remove contaminated clothing, brush material off skin, wash affected area with mild soap and water, and seek medical attention if symptoms persist

*Eye:* Flush eyes with lukewarm water, lifting upper and lower eyelids for at least 15 minutes and seek medical attention

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

*Steps to be taken in case material is released or spilled:*

Wear appropriate respiratory and protective equipment specified in section VIII. Isolate spill area, provide ventilation and extinguish sources of ignition. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust.



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*Waste disposal method:*

Dispose of in accordance with state, local, and federal regulations.

*Hazard Label Information:*

Store in cool, dry area and in tightly sealed container. Wash thoroughly after handling.

*Precautions for safe handling:*

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

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| <b>SECTION VIII - CONTROL MEASURES</b> |
|--|

*Protective Equipment Summary (Hazard Label Information):*

NIOSH approved respirator, impervious gloves, safety glasses, clothes to prevent contact.

*Ventilation:*

Local Exhaust: To maintain concentration at low exposure levels.

Mechanical (General): Recommended.

*Work/Hygienic/Maintenance Practices:*

Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

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| Please be advised that N/A can either mean Not Applicable or No Data Has Been Established |
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