

# SAFETY DATA SHEET

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Germanium Disulfide  
Product Number : G196221  
Brand : aladdin  
CAS-No. : 12025-34-2

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : 仅供科研用途，不作为药物、家庭备用药或其它用途。

### 1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co.,Ltd  
Address : 36 Xinjinqiao Road, Shanghai  
Telephone : 400-620-6333  
Fax : no data available

### 1.4 Emergency telephone number

Emergency Phone : 0532-83889090

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

### 2.2 GHS Label elements, including precautionary statements

Pictogram : no data available  
Signal word : no data available  
Hazard statement(s)  
Precautionary statement(s)

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms : dithioxogermane;germanium disulphide;Germanium sulfide  
Formula : GeS2  
Molecular weight : 136.77  
CAS No. : 12025-34-2

EC-NO. : no data available

Component	Classification	Concentration
Germanium Disulfide	no data available	99.999% metals basis

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

no data available

#### If inhaled

如果吸入，请将患者移到新鲜空气处。

#### In case of skin contact

脱去污染的衣着，用肥皂水和清水彻底冲洗皮肤。如有不适感，就医。

#### In case of eye contact

分开眼睑，用流动清水或生理盐水冲洗。立即就医。

#### If swallowed

分开眼睑，用流动清水或生理盐水冲洗。立即就医。

### 4.2 Most important symptoms and effects, both acute and delayed

no data available

### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

用水雾、干粉、泡沫或二氧化碳灭火剂灭火。避免使用直流水灭火，直流水可能导致可燃性液体的飞溅，使火势扩散。

#### Unsuitable extinguishing media

no data available

### 5.2 Special hazards arising from the substance or mixture

如必要的话，戴自给式呼吸器去救火。

### 5.3 Advice for firefighters

no data available

### 5.4 Further information

no data available

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## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

It is recommended that emergency responders wear air-carrying respirators, anti-static clothing, and rubber oil-resistant gloves. Do not touch or step over spillage. All equipment used during work should be grounded. Cut off sources of leaks as much as possible. Eliminate all ignition sources. The warning area is delineated according to the influence area of liquid flow, vapor or dust diffusion, and unrelated personnel are evacuated to the safe area from the crosswind and upwind directions.

### **6.2 Environmental precautions**

Collect leaked materials to avoid polluting the environment. Prevent leakage from entering sewers, surface water, and groundwater.

### **6.3 Methods and materials for containment and cleaning up**

Small leakage: Collect the leaked liquid in a container that can be sealed as much as possible. Absorb with sand, activated carbon, or other inert materials and transfer to a safe location. Do not flush into the sewer. Massive leakage: Build embankments or dig pits for containment. Close the drainage pipeline. Cover with foam to inhibit evaporation. Transfer to a tank truck or dedicated collector using an explosion-proof pump for recycling or transportation to a waste disposal site for disposal.

### **6.4 Reference to other sections**

no data available

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Operators should receive specialized training and strictly follow the operating procedures. Operation and disposal should be carried out in places with local or comprehensive ventilation facilities. Avoid contact with eyes and skin, and avoid inhaling vapors. Individual protective measures can be found in Section 8. Keep away from sparks and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled and there should be a grounding device to prevent the accumulation of static electricity. Avoid contact with prohibited substances such as oxidants (see section 10 for prohibited substances). When transporting, it is necessary to load and unload gently to prevent damage to the packaging and containers. Empty containers may have residual harmful substances. Wash hands after use and prohibit eating in the workplace. Equip corresponding types and quantities of firefighting equipment and emergency response equipment for leaks.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, ventilated warehouse. The warehouse temperature should not exceed 37°C. They should be stored separately from oxidants and food chemicals, and avoid mixed storage (see Section 10 for incompatible materials). Keep container tightly sealed. Keep away from fire and heat sources. Warehouses must be equipped with lightning protection equipment. The exhaust system should be equipped with a grounding device to eliminate static electricity. Use explosion-proof lighting and ventilation settings. It is prohibited to use equipment and tools that are prone to

sparks. The storage area should be equipped with emergency release equipment and suitable containment materials.

### 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eyeface protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

##### Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection,use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

##### Control of environmental exposure

no data available

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Appearance	no data available
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available

f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	no data available
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

## 9.2 Other safety information

no data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

正常环境温度下储存和使用，本品稳定。

### 10.2 Chemical stability

在建议的贮存条件下是稳定的

### 10.3 Possibility of hazardous reactions

静电放电、热、潮湿等。

### 10.4 Conditions to avoid

强氧化物，强酸，强碱。

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

no data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

no data available

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**SECTION 12: Ecological information**

**12.1 Toxicity**

no data available

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

no data available

## SECTION 13:

### 13.1 Disposal considerations

#### Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

#### Contaminated packaging

Dispose of as unused product.

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## SECTION 14: Transport information

### DOT (US)

UN number: no data available

Packing group: no data available

Class: no data available

Proper shipping name: no data available

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: no data available

### IMDG

UN number: no data available

Packing group: no data available

EMS-No: no data available

Proper shipping name: no data available

### IATA

UN number: no data available

Packing group: no data available

Class: no data available

Proper shipping name: no data available

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## SECTION 15: Regulatory information

no data available

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## SECTION 16: Other information

### Further information

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