

1 Identification

Product Name: G418 Sulfate

Catalog Number: G030

Company: Caisson Laboratories

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Recommended Use: For research and laboratory use only.

Restrictions On Use: This product is intended for research and laboratory use only. This product is not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

2 Hazard(s) Identification

Classification of the Substance or Mixture

GHS Classification: H317 - Skin Sensitization (Category 1)

H334 - Respiratory Sensitization (Category 1)

GHS Label elements, including precautionary statements

Signal Word: Danger

Hazard Statements

H317 - May cause an allergic skin reaction.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statements

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P285 - In case of inadequate ventilation wear respiratory protection.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container to an approved waste disposal plant

Pictograms:



3 Composition / Information on Ingredients

Synonyms: Geneticin®, G418 Disulfate

Formula: $C_{20}H_{40}O_{10}N_4 \cdot 2H_2SO_4$

Molecular Weight (g/mol): 692.71

CAS Number: 108321-42-2

EC Number: N/A

Component	Concentration (%)	Classification
G418 Sulfate		Skin Sens. 1; Resp. Sens. 1; H317, H334

4 First-Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Route of Exposure

If swallowed: If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.

In case of skin contact: Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.

In case of eye contact: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical attention.

If inhaled: Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

Recommendation for immediate medical care and special treatment needed: No data available

5 Fire-Fighting Measures

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment and precautions for fire-fighters: Wear self-contained breathing apparatus and protective clothing.

Special hazards arising from the substance or mixture: Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides

Additional Information: No data available

6 Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and material for containment and cleanup: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

7 Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

Conditions for safe storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Recommended storage temperature: 2 to 8 °C

Incompatibilities: Strong oxidizing agents

8 Exposure Controls / Personal Protection

OSHA Permissible Exposure Limits (PELs): No data available

ACGIH Threshold Limit Values (TLVs): No data available

Engineering controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE)

Eye/face protection: Wear safety glasses or goggles.

Skin protection: Wear protective gloves.

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Body protection: Wear lab coat, gown, or coveralls to protect from exposure.

9 Physical and Chemical Properties

Appearance: White Powder

pH: 5.0 - 6.0

Solubility: Soluble in water

Specific Gravity: No data available

Melting Range: No data available

Odor: Odorless

Odor Threshold: No data available

Viscosity: No data available

Relative Density: No data available

Evaporation Rate: No data available

Initial Boiling Point and Boiling Range: No data available

Flash Point: No data available

Flammability (Solid, gas): No data available

Flammability Upper/Lower Limits: No data available

Partition Coefficient: n-octanol/water: No data available

Vapor Density: No data available

Vapor Pressure: No data available

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

10 Stability and Reactivity

Reactivity: No data available

Chemical stability: Stable under normal conditions of use.

Possibilities of hazardous reactions: No data available

Conditions to avoid: Dust generation

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides

11 Toxicological Information

Toxicity: No data available

Carcinogenicity

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 NTP.

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

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

Reproductive toxicity: No data available

Symptoms associated with overexposure: Irritation, itching, gastrointestinal upset, nausea, vomiting, breathing difficulties, dizziness, weakness, headache, allergic reaction, abdominal pain, possible reproductive effects, and possible kidney impairment

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: No data available

Target Organs: Liver

Medical conditions aggravated by exposure: None identified

Routes of entry: Ingestion, inhalation, skin and eye contact

NIOSH/RTECS: Not available

12 Ecological Information

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects: No data available

13 Disposal Considerations

Disposal of Product: Dispose in accordance with all applicable federal, state, and local environmental regulations.

Disposal of Packaging: Dispose of as unused product.

14 Transport Information

DOT (US)

Proper Shipping Name: CHEMICALS, N.O.S (NON-REGULATED)

UN/NA number: N/A Class: N/A Packaging group: N/A Hazard Label: N/A

Reportable Quantity (RQ): N/A

Poison Inhalation Hazard: N/A

IMDG

Proper Shipping Name: CHEMICALS, N.O.S (NON-REGULATED)

UN number: N/A Class: N/A Packaging group: N/A Hazard Label: N/A

IATA

Proper Shipping Name: CHEMICALS, N.O.S (NON-REGULATED)

UN Number: N/A Class: N/A Packaging group: N/A Hazard Label: N/A

15 Regulatory Information

TSCA: Not Listed

SARA Title III

Section 302 (EHS) Ingredients: No

Section 313 Ingredients: No

Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: No SARA Hazards

16 Other Information

HMIS Rating

Health hazard: 2

Chronic health hazard: *

Flammability: 0

Physical hazard: 0

NFPA Rating

Health hazard: 0

Fire hazard: 0

Reactivity: 0

Special Hazard:



Safety Data Sheet

Further information: All chemicals may pose unknown hazards and should be used with caution. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Caisson Laboratories, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

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