

Section 1 - Product and Company Information

Product Name: **G418**

Cat. Code: ant-gn-1, ant-gn-5
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Company identification:
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Section 2 - Composition/Information on Ingredient

Substance Name: G418 sulfate
Concentration: 100 mg/ml (10 % solution)
CAS #: 108321-42-2

Molecular formula: $C_{20}H_{40}N_4O_{10} \cdot 2H_2SO_4$
Molecular weight: 692.7
EC number: N/A

Section 3 – Hazards Identification

Warning: The usual precautions taken when handling chemicals or biologicals should be observed.

Emergency Overview: Harmful if swallowed.

HMIS Classification: Health Hazard **0**, Flammability Hazard **0**, Reactivity Hazard **0**
NFPA Rating: Health Hazard **0**, Fire **0**, Reactivity Hazard **0**

Potential Health Effects

- **Eye contact:** May cause eye irritation.
- **Skin contact:** May cause skin irritation.
- **Skin absorption:** May be harmful if absorbed through the skin.
- **Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.
- **Ingestion:** Harmful if swallowed.

Section 4 – First Aid Measures

General advice: Consult a physician. Show this material safety data sheet to the doctor in attendance.

After skin contact: Immediately wash skin with soap and plenty of water. Consult a physician.

After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water provided person is conscious. Consult a physician.

After inhalation: Remove to fresh air. If not breathing give artificial respiration. Consult a physician.

After eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

Section 5 – Fire Fighting Measures

Extinguishing Media: Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special Firefighting Procedures: N/A

Flammability: N/A

Unusual Fire and Explosions Hazard (s): N/A

Flash point: N/A

Auto-ignition Temp: N/A

Section 6 – Accidental Release Measures

Personal precautions: Wear protective equipment. Keep unprotected persons away. Avoid dust formation.

Method for Cleaning Up: Absorb on sand or vermiculite and place in closed containers for disposal. Dispose contaminated material as waste according to section 13. Ventilate area and wash spill site after material clean-up is complete.

Section 7– Handling and Storage

Handling: Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

User Exposure: Avoid Inhalation. Use personal protective equipment (i.e. impermeable gloves, lab coat or apron).

Storage: Keep tightly closed. Store at –20°C.

Section 8 – Exposure Controls / PPE

Engineering Measures: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Hand: Protective gloves to prevent skin contact. **Eye:** Chemical safety goggles

General Hygiene Measures: Wash hands thoroughly after handling.

Section 9 – Physical / Chemical Properties

Appearance: Colorless

Physical State: Liquid

Solubility in Water: Liquid – readily miscible in water

Section 10 – Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Materials to avoid: Strong oxidizing agents

Hazardous Decomposition Products: Nature of decomposition products are not hazardous.

Section 11 – Toxicological Information

Acute toxicity:

LD50 Oral: 720 mg/kg mouse, 600 mg/kg guinea pig

LD50 Intraperitoneal: 580 mg/ml mouse, 287 mg/ml guinea pig

LD50 Intravenous: 335 mg/ml mouse, 202 mg/ml guinea pig

Primary irritant effect: N/A

Sensitization: N/A

Target Organ: kidney, ears

Additional toxicological information: Chronic health hazard.

Section 12 – Ecological Information

Ecotoxicity: Data not yet available.

Mobility: Data not yet available.

Biodegradation: Data not yet available.

Bioaccumulation: Data not yet available.

Section 13 – Disposal Considerations

Product: Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.

Contaminated Packaging: Dispose of as unused product.

Section 14 – Transport Information

DOT (US): Non-hazardous for transport.

IATA: Non-hazardous for transport.

IMDG: Non-hazardous for transport.

Section 15 – Regulatory Information

OSHA HAZARDS (US): No known OSHA Hazards

DSL Status: This product contains the following components that are not on the Canadian DSL nor NDSL lists.

G418 CAS no.: 108321-42-2

SARA 302 Component: None of the ingredients are listed.

SARA 313 Component: None of the ingredients are listed.

SARA 311/312 Hazards: None of the ingredients are listed.

U.S. State Regulations

Chemical Name	Massachusetts RTK	New Jersey RTK	Pennsylvania RTK	Illinois RTK	Rhode Island RTK
G418 CAS no. 108321-42-2	-	X	X	-	-

California Proposition 65: This product does not contain chemicals listed under Proposition 65.

EU risk phrase

Caution: Not fully tested

R22: Harmful if swallowed

WGK (Germany): 3 Self-Classification

Section 16 – Other Information

Disclaimer: All InvivoGen products are supplied for research and laboratory use only. Not for drug, household or other uses.

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