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Issuing Date: 14-Dec-2015

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Rev. 2

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

Product Name: G418 Disulfate Solution, 50mg/ml
Product Code: IB02060
Recommend Use: For further manufacturing use only
Not for human or animal drug use
Company: IBI SCIENTIFIC
7445 Chavenelle Road
Dubuque, IA 52002
Emergency Tele. Number: 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703
Company Tele. Number: 1-800-253-4942 / (001) 563-690-0484
E-Mail Address: info@ibisci.com

2. HAZARDOUS IDENTIFICATION

GHS – Classification

OSHA Regulatory Status: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Respiratory Sensitization (Category 1): Category 1
Skin Sensitization (Category 1): Category 1

Target Organ(s): Kidney, Ears

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 * P280-Wear protective gloves/protective clothing/eye protection/face protection * P342+P311-If experiencing respiratory symptoms, call a Poison Center or doctor/physician.

HMIS Classification: Health Hazard: 2
Chronic Health Hazard: *
Flammability: 0
Physical Hazards: 0

NFPA Rating: Health Hazard: 0
Fire: 0
Reactivity Hazard: 0

Potential Health Effects: Inhalation: May be harmful if inhaled. May cause respiratory tract irritation
Skin: May be harmful if absorbed through the skin. May cause skin irritation
Eyes: May cause eye irritation
Ingestion: May be harmful if swallowed

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: G418 DiSulfate Solution
EC No.: EEC No. 213-791-2
REACH Reg. No.: Not Available
CAS No.: 108321-42-2
Weight %: -
Classification: -

4. FIRST AID MEASURES

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact: Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes.
Inhalation: Move to fresh air. If breathing is difficult, give oxygen.
Ingestion: Clean mouth with water and afterwards drink plenty of water.
Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable Properties: Not flammable or combustible
Flash Point: Not determined
Suitable Extinguishing Media: Dry chemical, CO₂, water spray, alcohol-resistant foam
Hazardous Combustion Products: Carbon dioxide
Explosion Data
Sensitivity to Mechanical Impact: Not sensitive
Sensitivity to Static Discharge: Not sensitive
Protective Equip. & Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Ensure adequate ventilation.
Methods for Containment: Prevent further leakage or spillage, if safe to do so. Do not let enter drains.
Methods for Cleaning Up: Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice. Wear respiratory protection. Ensure adequate ventilation.
Storage: Keep container tightly closed in a dry, cool, and well-ventilated place. Store at +4°C.
Incompatible Products: None known.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures: Showers, Eyewash Stations, Ventilation Systems

Personal Protective Equipment

Eye/Face Protection: Tight fitting safety goggles.
 Skin & Body Protection: Wear protective gloves/clothing.
 Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless
Odor: No information available
Odor Threshold: No information available
Decomposition Temp. °C: No information available
Freezing Point: No information available
Initial Boiling Point: No information available
Physical State: Clear liquid
pH: No data available
Flash Point: Not determined
Autoignition Temp. °C: No data available
Boiling Point/Range: No data available
Melting Point/Range: No data available
Flammability Limits (Air): Upper-No data available * Lower-No data available
Explosion Limits No information available
Explosive Properties: No information available
Oxidizing Properties: No information available
Evaporation Rate: No information available
MMHG @ 37.8°C: No data available
Vapor Density: No data available
Specific Gravity: No data available
Solubility: No information available
Partition Coefficient (n-octanol/water): No data available
Viscosity: No information available

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions
Incompatible Products: Strong oxidizing agents
Conditions to Avoid: None known based on information supplied
Hazardous Decomposition Products: Carbon, Nitrogen, and Sulfur Oxides formed under fire conditions
Hazardous Polymerization: Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name: G418, disulfate - #108321-42-2
 LD50 Oral: No data available
 LD50 Dermal: No data available
 LC50 Inhalation: No data available
 LD50 Intraperitoneal: No data available
 LD50 Intravenous: No data available

Skin Corrosion/Irritation	No data available
Serious Eye Damage/Eye Irritation	No data available
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a possible carcinogen by IARC, ACGIH, NTP, or OSHA
Reproductive Toxicity	No data available
Teratogenicity	No data available
Specific Target Organ Toxicity-Single Exposure (GHS)	No data available
Specific Target Organ Toxicity-Repeat	No data available
Aspiration Hazard	No data available
Potential Health Effects	See Section 2, Hazard(s) Identification
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties of this product have not been thoroughly investigated
Synergistic Effects	No data available
Additional Information	RTECS: Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity: The environmental impact of this product has not been fully investigated
Treat as if harmful if released into environment

13. DISPOSAL CONSIDERATIONS

Water Disposal Method: Dispose of material in accordance with all federal, state, and local regulations.
Contaminated Packaging: Dispose of in accordance with all federal, state, and local regulations.

14. TRANSPORT INFORMATION

IATA
Not regulated

US DOT
Not regulated

15. TOXICOLOGICAL INFORMATION

REACH Title VII Restrictions	No information available
Chemical Name:	G418, disulfate - #108321-42-2
Dangerous Substances:	Not applicable
Organic Solvents:	Not applicable
Harmful Substances Whose Names are to be indicated on the Label:	Not applicable
Pollution Release and Transfer Registry (Class II):	Not applicable
Pollution Release and Transfer Registry (Class I):	Not applicable
Poison and Deleterious Substances Control Law:	Not applicable
ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying:	Not applicable
ISHA – Harmful Substances Requiring Permission:	Not applicable
Toxic Chemical Classification Listing (TCCL):	Not applicable
Toxic Release Inventory (TRI) – Group I:	Not applicable
Toxic Release Inventory (TRI) – Group II:	Not applicable

U.S. Federal Regulations

OSHA Hazards

SARA 302

Target Organ Effect, Skin and Respiratory Sensitizer

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain a chemical/chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Identifier: 7732-18-5

State

G418, disulfate - #108321-42-2

Massachusetts

No components are subject to the Massachusetts Right to Know Act

New Jersey

Water – CAS# 7732-18-5

Geneticin – CAS# 108321-42-2

Pennsylvania

Water – CAS# 7732-18-5

Geneticin – CAS# 108321-42-2

International Regulations

Mexico

No information available

Canada

DSL – The substance is specified on the public portion of the Domestic Substances List

Substance Name: Water

Date Published: 04/05/1994

Identifier: 108321-42-2

The substance is not specified on any list. There is no control measure imposed on this substance.

WHMIS Hazard Class

D2A – Very toxic materials



EU

MSDS in accordance with REACH 1907/2006
ECHA Pre-Registered Substance
EC Number – 231-791-2
CAS No. – 7732-18-5
Name – Water
Envisaged Registration Deadline: 30/11/2010
ECHA Pre-Registered Substance
EC List Number – 600-864-4
CAS No. – 108321-42-2
Name – D-Streptamine, O-2-amino-2,7-dideoxy-D-glycero- α -D-gluco-heptopyranosyl-
(1.fwdarw.4)-O-[3-deoxy-4-C-methyl-3-(methylamino)- β -L-arabinopyranosyl-
(1.fwdarw.6)]-2-deoxy-,sulfate (1:2)(salt)
Synonym: G418 sulfate
Envisaged Registration Deadline: 31/05/2018
See GHS Information under section 2, Hazard Identification

16. OTHER INFORMATION

Issuing Date: 14-Dec-2015
Revision Date: 29-Jun-2018
Revision Note: Updated address and logo
Recommended Restrictions: No information available
Disclaimer: The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release; and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the test.

End of Safety Data Sheet