

**1. SUBSTANCE IDENTITY AND COMPANY CONTACT INFORMATION**

<b>Product Name</b>	G418 disulfate
<b>Product Number</b>	G001
<b>Procedure</b>	G418 disulfate from <i>Micromonospora rhodorangea</i> .
<b>Brand</b>	G418 EvoPure™
<b>Company</b>	715 W. Orchard Drive Suite 3 Bellingham, WA 98225
<b>EMERGENCY PHONE (US only)</b>	+1-800-535-5053

**2. CHEMICAL COMPOSITION AND DATA ON COMPONENTS**

<b>CAS NO.</b>	108321-42-2
<b>Formula</b>	$C_{20}H_{40}N_4O_{10} \cdot 2H_2SO_4$
<b>Molecular Weight</b>	692.71

**3. HAZARD IDENTIFICATION**

<b>Label precautionary statements</b>	Avoid contact and inhalation.
<b>Target organ(s)</b>	Kidneys. Ears.

In case of accident or if you feel unwell, seek medical advice immediately (show label when possible).  
Wear suitable protective clothing, gloves and eye/face protection.

**4. FIRST-AID MEASURES**

**In case of eye and skin contact**

In case of contact, immediately flush eyes or skin with copious amounts of water at least 15 minutes while removing contaminated clothing and shoes. Assure adequate flushing of eyes by separating eyelids with fingers.

**If inhaled**

Remove to fresh air. If breathing is difficult, call a physician.

**If swallowed**

Wash out mouth with water (provided person is conscious). Call a physician immediately.

**Others**

Wash all contaminated clothing before reuse.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

**Unusual fire and explosion hazards**

Emits toxic fumes under fire conditions.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Wear disposable coveralls and discard them after use.

**Methods for cleaning up**

Sweep up; avoid raising dust, place in a bag and hold for waste disposal.

Ventilate area and wash spill site after material pickup is complete.

**7. HANDLING AND STORAGE****Handling**

Wear dust mask protective gloves chemical safety goggles. Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Safety shower and eye bath. Mechanical exhaust required. Wash thoroughly after handling.

**Storage**

Keep container tightly closed in a dry and well-ventilated place. Store at 2-8°C.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION****Personal protective equipment**

### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **Hand 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 EU Directive 89/686/EEC and the standard EN 374 derived from it.

### **Eye protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### **Skin and body protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Hygiene measures**

General industrial hygiene practice.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	White solid powder
pH	N/A
Melting point	N/A
Solubility	N/A

## **10. STABILITY AND REACTIVITY**

### **Storage stability**

Stable under recommended storage conditions.

### **Materials to avoid**

May discolor on exposure to light. Avoid strong oxidizing agents.

### **Hazardous decomposition products**

Hazardous combustion or decomposition products thermal decomposition may produce carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides.

## **Hazardous polymerization products**

Hazardous polymerization will not occur.

## **11. TOXICOLOGICAL INFORMATION**

### **Potential Health Effects**

<b>Inhalation</b>	May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
<b>Skin</b>	May cause skin irritation. May be harmful if absorbed through the skin.
<b>Eyes</b>	May cause eye irritation.
<b>Swallow</b>	May be harmful if swallowed.

### **Signs and Symptoms of Exposure**

Aminoglycosides are associated with significant nephrotoxicity and/ or ototoxicity.

### **Toxicity data:**

No data available.

### **Chronic exposure**

No data available.

Only selected registry of toxic effects of chemical substances (RTECS) data is presented here. See actual entry in trees for complete information.

## **12. ECOLOGICAL INFORMATION**

Data not yet available.

## **13. DISPOSAL CONSIDERATIONS**

### **Product**

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

### **Contaminated packaging**

Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

**ADR/RID**

Not dangerous goods

**IMDG** Not dangerous goods

**IATA** Not dangerous goods

## **15. REGULATORY INFORMATION**

### **US information**

Avoid contact and inhalation.

Target organ(s): Kidneys. Ears.

SARA list: No.

### **Canada information**

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No.

NDSL: No.

## **16. OTHER INFORMATION**

### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.