

# **SAFETY DATA SHEET**

Revision Date 08-Aug-2014 Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name G418 Sulfate

**Product Code** 61-234-RF, 61-234-RG, 61-234-RK

Other means of identification

 Synonyms
 Antibiotic G418

 CAS No
 108321-42-2

 Formula
 C20H40N4O10\* 2H2SO4

Pure substance/mixture Substance

Recommended use of the chemical and restrictions on use

**Recommended Use** For Research Use Only. Not Intended for Diagnostic or Therapeutic Use.

Details of the supplier of the safety data sheet

Company Name Mediatech Inc., A Corning Subsidiary

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CCN 56 88)

# 2. HAZARDS IDENTIFICATION

#### Classification

Res	Respiratory sensitization	Category 1
	Skin sensitization	Category 1

### Label elements

#### **Emergency Overview**

# Danger

#### Hazard statements

H317 - May cause an allergic skin reaction

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



 Appearance powder
 Physical state Solid
 Odor No information available

#### **Precautionary statements**

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

P280 - Wear protective gloves

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

### Hazards not otherwise classified (HNOC)

None known.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Common name
Synonyms
Antibiotic G418
Molecular weight
CAS No
108321-42-2
Formula
G418 disulfate salt
692.71 g/mol
108321-42-2
C20H40N4O10\* 2H2SO4

Chemical Name	CAS	No Weight-	% Trade Secret
G418 disulfate sal	108321	-42-2 100%	-

### 4. FIRST AID MEASURES

#### First aid measures

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Call a physician.

**Skin Contact** Wash off immediately with soap and plenty of water. Remove contaminated clothing and

shoes. Call a physician.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Ingestion If swallowed, rinse mouth with water (only if the person is conscious). Never give anything

by mouth to an unconscious person. Call a physician.

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

Symptoms See Section 11: TOXICOLOGICAL INFORMATION.

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

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

### **Hazardous combustion products**

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur.

#### **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment as required. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Avoid breathing dust/fume/gas/mist/vapors/spray.

### **Environmental precautions**

Collect spillage. Prevent product from entering drains.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Avoid creating dust. Cover powder spill with plastic sheet or tarp to minimize spreading.

Take up mechanically, placing in appropriate containers for disposal. Clean contaminated

surface thoroughly. Prevent product from entering drains.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Ensure adequate

ventilation, especially in confined areas.

# Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials**None known based on information supplied.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand Protection** Wear protective nitrile rubber gloves.

**Skin and body protection** Suitable protective 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.

Recommended Filter type: P95 (US); P1 (EU EN 143).

**General Hygiene Considerations** 

Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly after handling.

Remarks • Method

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Solid Appearance powder

AppearancepowderOdorNo information availableColorNo information availableOdor thresholdNo information available

<u>Property</u> <u>Values</u>

pH No information available
Melting point/freezing point No information available
Boiling point / boiling range
Flash point No information available
Evaporation rate No information available
Flammability (solid, gas) No information available

Flammability Limit in Air Upper flammability limit: No information available Lower flammability limit No information available Vapor pressure No information available Vapor density No information available **Specific Gravity** No information available Water solubility No information available Solubility in other solvents No information available **Partition coefficient** No information available No information available **Autoignition temperature Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Oxidizing properties** No information available

Molecular weight 692.71 g/mol

# 10. STABILITY AND REACTIVITY

No information available

### Reactivity

No data available

**Explosive properties** 

#### Chemical stability

Stable under normal conditions.

# **Possibility of Hazardous Reactions**

None under normal processing.

### **Conditions to avoid**

None known.

### **Incompatible materials**

Strong oxidizing agents.

# **Hazardous Decomposition Products**

None under normal use conditions
May emit toxic fumes under fire conditions

Carbon oxides, Nitrogen oxides (NOx), Oxides of sulfur.

# 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** 

#### **Product Information**

No acute toxicity information is available for this product

### Information on toxicological effects

Symptoms To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** May cause allergic respiratory reaction. May cause allergic skin reaction.

Germ cell mutagenicity No information available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
Target Organs
Target Organ Effects
No information available.
No information available.
Ears, liver, kidneys.
Liver disorders.

Potential health effects

**Inhalation** May be harmful if inhaled. May cause irritation of respiratory tract.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful in contact with skin. May cause irritation.

**Eyes** May cause eye irritation.

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

There is no known ecological information for this product

### Persistence and degradability

No information available.

# **Bioaccumulation**

No information available.

# Mobility in soil

No information available.

### Other adverse effects

No information available.

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes**Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

RID Not regulated

ADR Not regulated

<u>ADN</u> Not regulated

MEX Not regulated

# 15. REGULATORY INFORMATION

#### **International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
G418 disulfate salt	-	-	-	-	-	-	Χ	=	-	-

Legend X = Listed, - = Not Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

# **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and 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

### **CWA (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).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not Applicable

# **US State Regulations**

# **California Proposition 65**

Chemical Name	California Proposition 65
G418 disulfate salt (CAS #: 108321-42-2)	Developmental

# **16. OTHER INFORMATION**

Version 1

Revision Date 08-Aug-2014
Revision Note 08-Aug-2014
Not Applicable

**Disclaimer** 

To the best of our knowledge, the information contained herein is accurate. However, neither Corning Incorporated nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**End of Safety Data Sheet**