

SAFETY DATA SHEET

Creation Date 09-Jul-2010

Revision Date 14-Mar-2018

Revision Number 1

1. Identification			
Product Name	G418 disulfate, Cell Culture Reagent		
Cat No. :	J62671		
CAS-No Synonyms	108321-42-2 GeneticinÒ		
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use		
Details of the supplier of the	safety data sheet		

Company

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

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

Respiratory Sensitization	Category 1	
Skin Sensitization	Category 1	
Reproductive Toxicity	Category 1A	

Label Elements

Signal Word Danger

Hazard Statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction May damage fertility. May damage the unborn child



Precautionary Statements Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required In case of inadequate ventilation wear respiratory protection Contaminated work clothing should not be allowed out of the workplace Wear protective gloves Response IF exposed or concerned: Get medical attention/advice Inhalation IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse Storage Store locked up Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
D-Streptamine,	108321-42-2	>95
O-2-amino-2,7-dideoxy-D-glyceroalphaD-gluco-h		
eptopyranosyl-(1.fwdarw.4)-O-[3-deoxy-4-C-methyl-		
3-(methylamino)betaL-arabinopyranosyl-(1.fwdar		
w.6)]-2-deoxy-, sulfate (1:2) (salt)		

4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation	Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If not breathing, give artificial respiration.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Most important symptoms and	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause

effects

Notes to Physician

allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing Treat symptomatically

5. Fire-fighting measures				
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			
Unsuitable Extinguishing Media	No information available			
Flash Point Method -	No information available No information available			
Autoignition Temperature Explosion Limits	No information available			
Upper	No data available			
Lower	No data available			
Sensitivityto Mechanical Impac	t No information available			
Sensitivity to Static Discharge	No information available			

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO2) Nitrogen oxides (NOx)

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.

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<u>NFPA</u>	Health Flammability 2 1		Instability 0	Physical hazards N/A		
		6. Accidental rel	ease measures			
Personal	Precautions	Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.				
Environm	ental Precautions	Avoid release to the enviror	nment.			
Methods Up	for Containment and Cl	ean Sweep up or vacuum up sp formation.	illage and collect in suitable c	ontainer for disposal. Avoid dust		
7. Handling and storage						
Handling		Use only under a chemical	fume hood. Wear personal pro	otective equipment. Do not get in t breathe vapors/dust. Do not		
Storage		Keep containers tightly clos	ed in a dry, cool and well-vent	ilated place. Store in freezer.		
	8.	Exposure controls /				
<u>Exposure</u>	Guidelines		ain any hazardous materials w ion specific regulatory bodies.			
Engineer	ing Measures	Use only under a chemical are close to the workstation		ash stations and safety showers		

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physica	I and chemical properties	
Physical State	Solid	
Appearance	White	
Odor	Odorless	
Odor Threshold	No information available	
рН	No information available	
Melting Point/Range	No data available	
Boiling Point/Range	No information available	
Flash Point	No information available	
Evaporation Rate	Not applicable	
Flammability (solid,gas)	No information available	
Flammability or explosive limits		
Upper	No data available	
Lower	No data available	
Vapor Pressure	No information available	
Vapor Density	Not applicable	
Specific Gravity	No information available	
Solubility	No information available	
Partition coefficient; n-octanol/water	No data available	
Autoignition Temperature	No information available	
Decomposition Temperature	No information available	
Viscosity	Not applicable	
Molecular Formula	C20 H40 N4 O10 . 2 H2 S O4	
Molecular Weight	692.7	
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10. Stability and reactivity

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NOx)			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		
	44 Towicological information		

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic		No acute toxicity information is available for this product No information available				
Irritation		May cause eye, sk	in, and respiratory	r tract irritation		
Sensitization		No information available				
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carci			as a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
D-Streptamine,	108321-42-2	Not listed	Not listed	Not listed	Not listed	Not listed
O-2-amino-2,7-dideoxy -D-glyceroalphaD-gl uco-heptopyranosyl-(1. fwdarw.4)-O-[3-deoxy- 4-C-methyl-3-(methyla mino)betaL-arabino pyranosyl-(1.fwdarw.6)]-2-deoxy-, sulfate (1:2) (salt)						
Mutagenic Effects		No information available				
Reproductive Effect	ts May impair fertility.					
Developmental Effe	cts	May cause harm to	o the unborn child.			
Teratogenicity		Teratogenic effects	s have occurred in	experimental anin	nals.	
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information ava	ailable			
		Symptoms of allers of the hands and f				
Endocrine Disrupto	r Information	on No information available				
Other Adverse Effect	cts	The toxicological p	properties have no	t been fully investig	gated.	
12. Ecological information						
Ecotoxicity Do not empty into dra	ains.					
Persistence and De	gradability	Soluble in water Persistence is unlikely based on information available.				
Bioaccumulation/ A	ccumulation	No information ava	ailable.			
Mobility		Will likely be mobil	e in the environme	ent due to its water	solubility.	
			sal conside			
Waste Disposal Met				gional, and		

	14. Transport information	
DOT	Not regulated	

TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
D-Streptamine,	-	-	-	-	-		-	-	-	Х	-
O-2-amino-2,7-dideoxy-D-gly											
ceroalphaD-gluco-heptopy											
ranosyl-(1.fwdarw.4)-O-[3-de											
oxy-4-C-methyl-3-(methylami											
no)betaL-arabinopyranosyl											
-(1.fwdarw.6)]-2-deoxy-,											
sulfate (1:2) (salt)											

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA Occupational Safety and Health Administration Not applicable	
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation	

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

16. Other information			
Prepared By	Health, Safety and Environmental Department		
. ,	Email: tech@alfa.com		
	www.alfa.com		
Creation Date	09-Jul-2010		
Revision Date	14-Mar-2018		
Print Date	14-Mar-2018		
Revision Summary	SDS authoring systems update, replaces ChemGes SDS No. 108321-42-2.		

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS