

SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2022
Date Updated: December 31, 2022

SECTION 1. ----- PRODUCT AND COMPANY IDENTIFICATION -----

Product Name G418 sulfate solution (40mg/ml, Sterile)
Product Code(s) BSAT010005
Recommended Use For Laboratory Research Use Only
Not for Human or Animal Drug Use

Supplier Bio Basic Asia Pacific Pte Ltd.
Address 2 International Business Park Road
Strategy #01-04, Singapore 609930
Telephone (+65) 6954 2519
(+65) 6491 5938
Email sg@biobasic-asia.com

SECTION 2. ----- HAZARDS IDENTIFICATION -----

Classification of the substance or mixture

Respiratory sensitization, Category 1

Skin sensitization, Category 1

GHS label elements, including precautionary statements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

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

H317 May cause an allergic skin reaction

Precautionary statement(s)

Prevention	P261 Avoid breathing dust/fume/gas/mist/vapors/spray
	P284 [In case of inadequate ventilation] wear respiratory protection
	P272 Contaminated work clothing should not be allowed out of the workplace
	P280 Wear protective gloves/protective clothing/eye protection/face protection

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Response	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
	P342+P316 If experiencing respiratory symptoms: Get emergency medical help immediately
	P302+P352 IF ON SKIN: Wash with plenty of water
	P333+P317 If skin irritation or rash occurs: Get medical help.
	P321 Specific treatment (see ... on this label).
	P362+P364 Take off contaminated clothing and wash it before reuse.
Storage	None
Disposal	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

SECTION 3. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

Substances

Not applicable

Mixtures

Chemical Name	Common Names and Synonyms	CAS number	EC number	% [weight]
(2R,3S,4R,5R,6S)-5-amino-6-[(1R,2S,3S,4R,6S)-4,6-diamino-3-[(2R,3R,4R,5R)-	G418 Sulfate	1083221-42-2	600-864-4	1-10%
-	No other ingredients are hazardous according to OSHA criteria. No other components need to be disclosed according to the applicable regulations	-	-	-

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SECTION 4. ----- FIRST-AID MEASURES-----

Description of necessary first-aid measures

Following inhalation

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes (remove contact lenses if possible) and consult a physician.

If swallowed

Rinse mouth with water. Do not drink anything. Do NOT induce vomiting. Consult a physician/Poison Control Center immediately

Most important symptoms/effects, acute or delayed

No data available

indication of immediate medical attention and special treatment needed, if necessary

Absorption, Distribution and Excretion

No data available

SECTION 5. ----- FIRE FIGHTING MEASURES-----

Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam

Special hazards arising from the substance or mixture

Hazardous combustion products

No data available

Advice for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapors. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations

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SECTION 7. ----- HANDLING AND STORAGE-----

Precautions for safe handling

Handling in a well-ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam

Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials

SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION-----

Control parameters

Occupational Exposure limit values

No data available

Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk elimination area.

Personal protective equipment

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH(US)

Skin protection

Wear fire/flare resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. 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.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES-----

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	No data available
Color	No data available
Odor	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	pure CAS 108321-42-2: 1012.1°C at 760mmHg
Flash point	pure CAS 108321-42-2: 565.9°C
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available

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Vapor pressure	pure CAS 108321-42-2: 0mmHg at 25°C
Vapor density	No data available
Relative Density	No data available
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Viscosity	No data available
Particle characteristic	No data available

SECTION 10. -----STABILITY AND REACTIVITY -----

Reactivity

No data available

Chemical stability

No data available

Possibility of hazardous reactions

No data available

Conditions to avoid

No data available

Incompatible materials

No data available

Hazardous decomposition products

No data available

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

Acute toxicity

Oral: No data available

Inhalation: No data available

Dermal: 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 data available

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Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12. ----- ECOLOGICAL INFORMATION -----

Toxicity

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Toxicity to microorganisms: No data available

Persistence and degradability

No data available

Bio accumulative potential

No data available

Mobility in soil

No data available

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging material

SECTION 14. ----- TRANSPORT INFORMATION -----

UN number

ARD/RID: Not dangerous goods

IMGD: Not dangerous goods

IATA: Not dangerous goods

UN Proper Shipping Name

ARD/RID: Not dangerous goods

IMGD: Not dangerous goods

IATA: Not dangerous goods

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Transport hazard class(es)

ARD/RID: Not dangerous goods

IMGD: Not dangerous goods

IATA: Not dangerous goods

Packing groups, if applicable

ARD/RID: Not dangerous goods

IMGD: Not dangerous goods

IATA: Not dangerous goods

Environmental hazards

ARD/RID: No

IMGD: No

IATA: No

SECTION 15. ----- REGULATORY INFORMATION -----

Chemical name	Common names and synonyms	CAS number	EC number
(2R,3S,4R,5R,6S)-5-amino-6-[(1R,2S,3S,4R,6S)-4,6-diamino-3-[(2R,3R,4R,5R)-	G418 Sulphate	108321-42-2	600-864-4
European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed
EC Inventory			Not Listed
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed
China Catalog of Hazardous chemicals 2015			Not Listed
New Zealand Inventory of Chemicals (NZIoC)			Not Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Not Listed
Vietnam National Chemical Inventory			Listed
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed
Korea Existing Chemical List (KECL)			Not Listed
Chemical name	Common names and synonyms	CAS number	EC number
-	No other ingredients are hazardous according to OSHA criteria. No other components need to be disclosed according to the applicable regulations	-	-
European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed
EC Inventory			Not Listed
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed

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China Catalog of Hazardous chemicals 2015	Not Listed
New Zealand Inventory of Chemicals (NZIoC)	Not Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Not Listed
Vietnam National Chemical Inventory	Not Listed
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Not Listed
Korea Existing Chemical List (KECL)	Not Listed

SECTION 16. ----- OTHER INFORMATION-----

Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

References

IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>

HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>

ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>

Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>

ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

Disclaimer

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. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product

End of SDS