

Safety Data Sheet

G-418 Sulfate Solution, 100 % Activity (50 mg/ml)

According to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 04.10.2017

Print Date: 04.10.2017

SECTION 1 Identification of the Substance/Mixture and of the Company/ Undertaking

Product identifiers

Product name: G-418 Sulfate Solution, 100 % Activity (50 mg/ml)

Cat. No.: G418-H, G418-10X, G418-B

Relevant identified uses of the substance or mixture and uses advised against

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Details of the supplier of the safety data sheet

Company: Capricorn Scientific GmbH
Auf der Lette 13 A
35085 Ebsdorfergrund
Germany
Phone: +49 6424 94464 0
E-Mail: info@capricorn-scientific.com

Emergency telephone number

Emergency Phone: During Office Time +49 6424 94464 0.

SECTION 2 Hazards Identification

The product is classified and labelled in accordance with Directive 1999/45/EC.

GHS-Classification

Signal word: Danger



Health Hazard

Skin corrosion/irritation	Category 3
Respiratory sensitisation	Category 1
Skin sensitisation	Category 1

Physical Hazard

Not hazardous.

Hazard statements

H317 - May cause an allergic skin reaction

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

H316 - Causes mild skin irritation

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Precautionary statements

P285 - In case of inadequate ventilation wear respiratory protection

P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P332 + P313 - If skin irritation occurs: Get medical advice/attention

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection

European Union



EU Specific Hazard Statements

R-phrases

R42/43 - May cause sensitisation by inhalation and skin contact.

S-phrases

S63 - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

S25 - Avoid contact with eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/39 - Wear suitable protective clothing and eye/face protection.

Principle Routes of Exposure/Potential Health effects

Eyes Irritating to eyes.

Skin May cause sensitisation by skin contact. Irritating to skin.

Inhalation May cause irritation by inhalation.

Ingestion May be harmful if swallowed.

Specific effects

Carcinogenic effects Not applicable.

Mutagenic effects Not applicable.

Reproductive toxicity Not applicable.

Sensitisation May cause sensitisation of susceptible persons.

Target Organ Effects No known effects under normal use conditions.

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SECTION 3 Composition/Information on Ingredients

Chemical Name	CAS #	EINECS #	Weight percent
G-418 O-2-Amino-2,7-dideoxy-D-glycero- α -D-glucopyranosyl-(1 \rightarrow 4)-O-(3-desoxy-4-C-methyl-3-(methylamino)- β -L-arabinopyranosyl-(1 \rightarrow 6))-D-streptamin	108321-42-2	-	< 10

We recommend handling all chemicals with caution.

SECTION 4 First Aid Measures

Skin contact	Wash off immediately with plenty of water. If symptoms persist, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Inhalation	Move to fresh air. If not breathing, give artificial respiration.
Notes to physician	Treat symptomatically.

SECTION 5 Firefighting Measures

Suitable extinguishing media

Dry chemical.

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective suit.

SECTION 6 Accidental Release Measures

Personal precautions	Use personal protective equipment.
Methods for cleaning up	Soak up with inert absorbent material.
Environmental precautions	Prevent further leakage or spillage if safe to do so.

SECTION 7 Handling and Storage

Handling

S24/25 - Avoid contact with skin and eyes

Storage

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. Store at $\leq -15^{\circ}\text{C}$.

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Recommended storage temperature: <-15°C.

SECTION 8 Exposure Controls/Personal Protection

Exposure limits

We are not aware of any national exposure limit.

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Impervious gloves.

Eye protection Safety glasses with side-shields.

Skin and body protection Lightweight protective clothing.

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

Environmental exposure controls

Prevent product from entering drains.

SECTION 9 Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state at 20 °C:	Liquid
Color:	Colorless
Odor:	Odorless
pH:	No information available
Water solubility:	Soluble

Important Health Safety and Environmental Information

Boiling point/range	°C	No data available.
Melting point/range	°C	No data available.
Flash point	°C	No data available.
Autoignition temperature	°C	No data available.
Oxidising properties	°C	No data available.

SECTION 10 Stability and Reactivity

Stability	Stable under normal conditions.
Materials to avoid	Strong oxidising agents.
Hazardous decomposition	Carbon oxides. Nitrogen oxides (NOx). Contact with acids liberates very toxic gas.
Polymerisation	Hazardous polymerisation does not occur.

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SECTION 11 Toxicological Information

Acute toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
G-418 O-2-Amino-2,7-dideoxy-D-glycero- α -D-gluco-heptopyranosyl-(1 \rightarrow 4)-O-(3-deoxy-4-C-methyl-3-(methylamino)- β -L-arabinopyranosyl- (1 \rightarrow 6))-D-streptamin	No data available	No data available.	No data available.

Principle Routes of Exposure/Potential Health effects

Eyes	Irritating to eyes.
Skin	May cause sensitisation by skin contact Irritating to skin.
Inhalation	May cause irritation by inhalation.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	No information available.
Mutagenic effects	No information available.
Reproductive toxicity	No information available.
Sensitisation	May cause sensitisation of susceptible persons.

SECTION 12 Ecological Information

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	No information available.
Bioaccumulation	No information available.

SECTION 13 Disposal Considerations

Dispose of in accordance with local regulations.

SECTION 14 Transport Information

IATA

Proper shipping name	Not classified as dangerous in the meaning of transport regulations.
Hazard class	None.
Subsidiary Class	None.
Packing group	None.
UN-No	None.

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SECTION 15 Regulatory Information

International Inventories

Complies

Chemical Name	EINECS	ELINCS	ENCS	PICCS	AICS	KECL	DSL	NDSL
G-418 O-2-Amino-2,7- dideoxy-D-glycero- α -D- gluco-heptopyranosyl- (1 \rightarrow 4)-O-(3-desoxy-4-C- methyl-3- (methylamino)- β -L- arabinopyranosyl- (1 \rightarrow 6))-D-streptamin	-	-	-	-	-	-	-	-

SECTION 16 Other 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.