

G-418 DISULPHATE**G418****SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking****1.1. Product identifier**

Identification of the product : Raw Material
Product code : G-4181, G4185
Trade name : G-418 Disulphate
Synonym(s) : Geneticin disulfate
CAS number : 108321-42-2

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

Use : For research purposes only

1.3. Details of the supplier of the safety data sheet

Company identification : **Formedium Ltd.**
Unit 1B Hunstanton Commercial Park Norfolk PE365JQ
Tel: +44(0)1485 609069
Fax: +44(0)1485 600510
E-mail:info@formedium.com

1.4. Emergency telephone number

Emergency phone nr : Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)
National Poison Information Centre :Europe UK : +44 0845 4647 (this service is only available to health professionals)
See www.toxbase.org for a local poison centre

SECTION 2 Hazards Identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) 1272/2008**

Respiratory sensitisation (Category 1), H334

Skin sensitisation (Category 1), H317

For the full text of the H-statements mentioned in this Section, see section 16.

2.2. Label elements**Labelling according to Regulation (EC) 1272/2008**

Hazard statement(s): H317 – May cause an allergic skin reaction.
H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement(s): P261 – Avoid breathing dust.
P280 – Wear protective gloves, protective clothing, eye protection, face protection.
P342+P311 – If experiencing respiratory symptoms : Call a POISON CENTER or doctor / physician.

Supplemental hazard statements: None

2.3 Other hazards

None under normal conditions.

**Signal Word: DANGER****SECTION 3 Composition/Information on Ingredients**

Molecular Weight: 692.7 g/mol

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component

Substance name	contents	CAS No	EC No	Classification
Geneticin	<=650 ug/mg	108321-42-2	-----	Resp. Sens 1 ; Skin Sens 1 ; H317, H334

Contains no other components or impurities which will influence the classification of the product.

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4 First Aid Measures

4.1. Description of first aid measures

- General advice** : Consult a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation** : Seek medical attention immediately. If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- Skin contact** : Seek medical attention immediately. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- Eye contact** : Flush eyes with water as a precaution.
- Ingestion** : Seek medical attention immediately. Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam, Carbon Dioxide (C^o2), Dry chemical, Water Spray

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : High temperature may liberate dangerous gases.
Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

5.4. Further Information

: No data available.

SECTION 6 Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2. Environmental precautions

Prevent entry to sewers and public water..

For personal protection see section 8.

6.3. Methods and material for containment and cleaning up

Clean up methods : Pick up and arrange disposal without creating dust. Sweep up and shovel.
Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal, see section 13

SECTION 7 Handling and Storage

7.1. Precautions for safe handling

General : Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see Section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature : 2 – 8 Deg C.

7.3. Specific end use(s)

For research use only.

G-418 DISULPHATE**G418****SECTION 8 Exposure Controls / Personal Protection****8.1. Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

8.2. Exposure controls**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment**Eye / face protection:**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin 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.

Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min

Body protection:

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection:

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or GEN (EU).

Control of environmental exposure: Do not let product enter drains.

SECTION 9 Physical and Chemical Properties**9.1. Information on basic physical and chemical properties**

- | | |
|---|-------------------------------|
| a) Appearance | Form: Powder
Colour: White |
| b) Odour | Odourless |
| c) Odour Threshold | Not established |
| d) pH | No data available |
| e) Melting point/freezing point | No data available |
| f) Initial boiling point and boiling range | No data available |
| g) Flash point | No data available |
| h) Evaporation rate | No data available |
| i) Flammability (solid, gas) | No data available |
| j) Upper/lower flammability or explosive limits | No data available |
| k) Vapour pressure | No data available |
| l) Vapour density | No data available |
| m) Relative density | Not established |
| n) Water solubility | Good |
| o) Partition coefficient: n octanol/water | No data available |
| p) Auto-ignition temperature | No data available |
| q) Decomposition temperature | No data available |
| r) Viscosity | No data available |
| s) Explosive properties | Not established |
| t) Oxidizing properties | Not established |

9.2. Other safety information

No data available

G-418 DISULPHATE**G418****SECTION 10 Stability and Reactivity****10.1. Reactivity**

No data available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products**Hazardous decomposition products**

Other decomposition products – No data available.

In the event of fire : see Section 5.

SECTION 11 Toxicological Information**11.1. Information on toxicological effects****Acute toxicity**

No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/eye irritation

No data available.

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

Additional Information

RTECS: Not available

Aminoglycosides are associated with significant nephrotoxicity and / or ototoxicity.

Liver – Irregularities – Based on human evidence.

G-418 DISULPHATE**G418****SECTION 12 Ecological Information****12.1. Toxicity**

No data available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance / mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent, bioaccumulative and toxic (vPBT) at levels of 0.1% or higher.

12.6. Other adverse effects

No data available.

SECTION 13 Disposal Considerations**13.1. Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product

SECTION 14 Transport Information**14.1. UN Number**

ADR/RID: -

IMDG: -

IATA: -

14.2. UN Proper shipping name

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5. Environmental hazards

ADR/RID: No

IMDG Marine pollutant: No

IATA: No

14.6. Special precautions for user

No data available.

14.7. Bulk transport - annex II Marpol 73/78 - IBC

No data available.

G-418 DISULPHATE**G418****SECTION 15 Regulatory Information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 2015/830

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16 Other Information**Full text of H-Statements referred to under sections 2 and 3.**

H317 May cause an allergic skin reaction.

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

Resp. Sens. Respiratory sensitisation.

Skin Sens. Skin sensitisation.

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. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision:

Complete SDS revision.

End of document