Safety Data Sheet

1: Identification of substance / mixture

1. Product Identifier

Substance

Product Name	**GENTAMICIN SULPHATE**
Product Code	G38000
CAS Number	1405-41-0
Other Names	G38000
IUPAC	
MFCD Number	
EC/EINECS	215-778-9
REACH Number	Index-No

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

For Laboratory Research Use

3. Details of the supplier of the safety data sheet

Melford Laboratories Ltd
Bildeston Road,Chelsworth
Ipswich
Suffolk
IP77LE
UK

Telephone: 01449 741178
Fax: 01449 741217
Email: support@melford.co.uk

4. Emergency telephone number

+44(0)1449 741178 -

2. Hazards Identification

1. Classification of the substance or mixture

H315	Skin Irrit. 2	
H317	Skin Sens. 1	
H319	Eye Irrit. 2	
H334	Resp. Sens. 1	
H335	STOT SE 3	
H361	Repr. 2	

2. Label elements

Signal Word **Danger**

Hazard Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child ..

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face 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.

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

Product Name	Hazards	Concentration
GENTAMICIN SULPHATE		
CAS Number: 1405-41-0 EC/EINECS: 215-778-9	H315, H317, H319, H334, H335, H361 Eye Irrit. 2, Repr. 2, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT SE 3	<=100%

4. First Aid Measures

1. Description of first aid measures

Skin Contact

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
Wash off with soap and plenty of water. Consult a doctor.
Remove all contaminated clothes and footwear immediately unless stuck to skin.

Eye Contact

Bathe the eye with running water for 15 minutes.
Consult a doctor.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water.
Consult a doctor.

Inhalation

P304 + P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
If breathed in, move person into fresh air. If not breathing, give artificial respiration.
If breathing becomes bubbly, have the casualty sit and provide oxygen if available.
Consult a doctor.

2. Most important symptoms and effects

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

3. Indication of any immediate medical attention

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required

5. Firefighting measures

1. Extinguishing Media

Suitable

Water spray.
Carbon dioxide.
Alcohol or polymer foam.
Dry chemical powder.

Unsuitable

None

2. Special Hazards arising from the substance or mixture

In combustion emits toxic fumes:
Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.

6. Accidental Release Measures

1. Personal Precautions

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

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

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

4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

7.Handling and Storage

1. Personal Precautions

Safe Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use in a chemical fume hood, with air supplied by an independent system.
Protection against explosions and fires	Normal measures for preventive fire protection.

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks	Keep container tightly closed in a dry and well-ventilated place. Store at room temperature.
Storage Controls	no data available
Maintaining Integrity	no data available
Other advice	no data available

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

General protective and hygiene measures	P280: Wear protective gloves/protective clothing/eye protection/face protection. The standard precautionary measures should be adhered to when handling Wash hands before breaks and at the end of workday.
Engineering measures	Use in a chemical fume hood, with air supplied by an independent system.
Eye / Face Protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)
Hand 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. 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	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. 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 CEN (EU)
Skin 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.
Other personal protection advice	no data available

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	White powder
Odour	No Data Available
Odour threshold	No Data Available
PH	3.5-4.5 (4.0% soln @ 25°C)
Melting point / Freezing point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	No Data Available
Solubility(ies):	Soluble in water
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

no data available

2. Stability

Stable under recommended transport or storage conditions.

3. Possibility of Hazardous Reactions

no data available

4.Conditions to Avoid

Moisture- hygroscopic.

5. Incompatible Materials

Strong oxidising agents.

6. Hazardous Decomposition Products

In combustion emits toxic fumes:
Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

11. Toxicology information

1. Information

Acute Toxicity	Oral LD50 (rat) 50 g/kg
Skin corrosion/irritation	no data available
Serious eye Damage/irritation	no data available
	no data available

Respiratory or skin sensitisation	
Germ Cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
STOT-single exposure	no data available
STOT-repeated exposure	no data available
Aspiration hazard	no data available

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

1. Toxicity

no data available

2. Persistence and degradability

no data available

3. Bio-Accumulative Potential

no data available

4. Mobility and Soil

no data available

5. Results of PBT & vPvB assessment

no data available

6. Other adverse effects

May be harmful to the aquatic environment.

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations	Consult state, local or national regulations for proper disposal.
Disposal of Packaging	Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

Not classified as hazardous for transport

Road (ADR)

Not classified as hazardous for transport

Sea (IMDG)

Not classified as hazardous for transport

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)
RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association
ICAO:International Civil Aviation Organization
ICAO-TI: Technical Instructions by the ICAO
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS:Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.