

**Gentamicin Sulphate****GEN05, GEN25****SECTION 1 Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Identification of the product : Raw material  
Product code : GEN05, GEN25  
Trade name : Gentamicin sulphate  
CAS number : 1405-41-0  
EC No : 215-778-9  
Molecular Formula : C60H127N15O26S  
Molecular Weight : 575.67 g/mol

**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](http://www.toxbase.org) for a local poison centre

**SECTION 2 Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272 / 2008**

Hazard categories:  
Skin sensitisation : Category 1 (H317)

**2.2. Label elements****Regulation (EC) No. 1272/2008****Signal Word: WARNING**

**Hazard statement(s):** H317 – May cause an allergic skin reaction.

**Precautionary statement(s):** P280 – wear protective gloves / protective clothing / eye protection / face protection.  
P302 + P352 – IF ON SKIN: Wash with plenty of water.

**Supplemental hazard statements:** None

**2.3. Other hazards****PBT**

This substance is not identified as a PBT substance.

**Gentamicin sulphate****GEN05, GEN25****SECTION 3 Composition/information on ingredients****3.1. Substances****Chemical characterization**

Substance: Gentamicin sulfate salt

Molecular formula: C<sub>60</sub>H<sub>127</sub>N<sub>15</sub>O<sub>26</sub>S

CAS No : 001405-41-0

EC No : 215-778-9

Mol. Weight : 575.67 g/mol

This product is hazardous

**SECTION 4 First Aid Measures****4.1. Description of first aid measures****Skin contact:** Wash off with soap and plenty of water. Consult a physician.**Eye contact:** Flush eyes with water as a precaution.**Ingestion:** Rinse mouth with water. Seek medical attention if ill effect develops.**Inhalation:** Remove casualty into fresh air. If not breathing , give artificial respiration. Consult a physician.**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**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2. Special hazards arising from the substance or mixture**

Nature of decomposition products is unknown.

**5.3. Advice for fire-fighters**

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**SECTION 6 Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust. Avoid contact with skin, eyes and clothes. Avoid breathing vapours, gas or mist.

**6.2. Environmental precautions**

Do not allow product to enter drains or rivers.

**6.3. Methods and material for containment and cleaning up**

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**

PPE: refer to section 8. Disposal : refer to section 13

**Gentamicin Sulphate****GEN05, GEN25****SECTION 7 Handling and storage****7.1. Precautions for safe handling**

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**

Keep container tightly closed in a cool and well-ventilated area.  
Recommended storage temperature : 2 to 8 Deg C.

**7.3. Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

**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 after work.

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

Face shield and safety glasses. 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.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

**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 CEN (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**

Physical Form: Powder  
Odour: Odourless  
pH: 3.5 – 5.5 (40g/L at 20°C)  
Melting point: 218 - 237°C at 1.013 hPa

**9.2. Other information**

No data available.

**Gentamicin Sulphate****GEN05, GEN25****SECTION 10 Stability and reactivity****10.1. Reactivity**

Stable under recommended transport or storage conditions.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

**10.4. Conditions to avoid**

No data available.

**10.5. Incompatible materials**

Strong oxidizing agents.

**10.6. Hazardous decomposition products**

No data available.

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

LD50 Oral – Rat -&gt; 5,000 mg/kg

Remarks: (RTECS)

**Skin contact**

No data available.

**Eye contact**

No data available.

**Ingestion**

No data available.

**Inhalation**

No data available.

**Additional information**

RTECS: LY2625000

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

Possible effects after uptake:

Drowsiness, convulsions, somnolence, shortness of breath.

Physiologically highly active substance.

Therapeutically used substance.

Other dangerous properties cannot be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Liver – Irregularities – Based on Human Evidence

**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 is not identified as a PBT substance.

**12.6. Other adverse effects**

Negligible ecotoxicity.

**Gentamicin Sulphate****GEN05, GEN25****SECTION 13 Disposal considerations****13.1. Waste treatment methods****Disposal operations****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 equipped with an afterburner and scrubber.

Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

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

Not applicable

**General information** : Not classified as dangerous in the meaning of transport regulations

**14.2. Proper shipping name**

Not applicable

**14.3. Transport Hazard Classification**

Not applicable

**14.4. Packing Group**

Not applicable

**14.5. Environmental hazards**

Not applicable

**14.6. Special precautions for user**

Not applicable

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

**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 (EU) No. 2015/830.

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16 Other information****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.

**Complete SDS revision**