

## 1 Identification

- **Product identifier**
- **Trade name:** Gentamycin Sulfate, USP
- **Article number:** 190057
- **CAS Number:**  
1405-41-0
- **EC number:**  
215-778-9
- **Molecular Formula** N/A
- **Molecular Weight** N/A g/mol
- **Application of the substance / the mixture** For Research Use Only
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
MP Biomedicals, LLC  
29525 Fountain Parkway  
Solon, OH 44139  
United States  
www.mpbio.com
- **Information department:** Quality Control Department
- **Emergency telephone number:** CHEMTREC: 1-800-424-9300 (1-703-527-3887)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**
- **GHS label elements**  
The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard statements**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.
- **Precautionary statements**  
[In case of inadequate ventilation] wear respiratory protection.  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wear protective gloves.  
Contaminated work clothing must not be allowed out of the workplace.  
Specific treatment (see on this label).  
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
Wash contaminated clothing before reuse.  
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.  
If skin irritation or rash occurs: Get medical advice/attention.

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acc. to OSHA HCS

Printing date 08/04/2016

Reviewed on 06/21/2016

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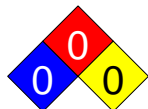
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*IF ON SKIN: Wash with plenty of water.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 0

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = \*2

Fire = 0

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Substances**

· **CAS No. Description**

1405-41-0 Gentamycin Sulfate, USP

· **Identification number(s)**

· **EC number:** 215-778-9

### 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

*If breathed in, supply fresh air. If not breathing, give artificial respiration. Consult a Doctor.*

· **After skin contact:** Wash off with soap and plenty of water. Consult a Doctor.

· **After eye contact:** Flush eyes with running water as a precaution.

· **After swallowing:** If symptoms persist consult doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:** No special measures required.

### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate

ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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- For personal protection see section 8.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically, dispose contaminated material as waste according to Section 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace. Avoid direct contact with skin and eyes.
- **Information about protection against explosions and fires:** No special requirements.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:** 2 - 8 °C
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Further information about storage conditions:**
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see Section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· *Eye protection: Not required.*

## 9 Physical and chemical properties

### · *Information on basic physical and chemical properties*

#### · *General Information*

#### · *Appearance:*

· <i>Form:</i>	<i>Powder</i>
· <i>Color:</i>	<i>White</i>
· <i>Odor:</i>	<i>Characteristic</i>
· <i>Odor threshold:</i>	<i>Not determined.</i>

· *pH-value:* *Not applicable.*

#### · *Change in condition*

· <i>Boiling point/Boiling range:</i>	<i>Undetermined.</i>
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· *Flash point:* *Not applicable.*· *Flammability (solid, gaseous):* *Product is not flammable.*

#### · *Ignition temperature:*

· <i>Decomposition temperature:</i>	<i>Not determined.</i>
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· *Auto igniting:* *Not determined.*· *Danger of explosion:* *See section 10*

#### · *Explosion limits:*

· <i>Lower:</i>	<i>Not Applicable</i>
· <i>Upper:</i>	<i>Not Applicable</i>

· *Vapor pressure:* *Not applicable.*

· <i>Density:</i>	<i>Not Applicable</i>
· <i>Relative density</i>	<i>Not determined.</i>
· <i>Vapor density</i>	<i>Not applicable.</i>
· <i>Evaporation rate</i>	<i>Not applicable.</i>

· <i>Solubility in / Miscibility with</i>	<i>Not Determined</i>
· <i>Water:</i>	<i>Soluble.</i>

· *Partition coefficient (n-octanol/water):* *Not determined.*

#### · *Viscosity:*

· <i>Dynamic:</i>	<i>Not applicable.</i>
· <i>Kinematic:</i>	<i>Not applicable.</i>

· *Other information* *No further relevant information available.*

## 10 Stability and reactivity

· *Reactivity* *No further relevant information available.*

#### · *Chemical stability*

· *Thermal decomposition / conditions to be avoided:* *No decomposition if used according to specifications.*· *Possibility of hazardous reactions* *No dangerous reactions known.*· *Conditions to avoid* *No further relevant information available.*· *Incompatible materials:* *No further relevant information available.*· *Hazardous decomposition products:* *No dangerous decomposition products known.*

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## 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

Oral	LD50	11269 mg/kg (mouse)
		5000 mg/kg (rat)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** Irritant and potentially harmful

- **Sensitization:**

- Sensitization possible through inhalation.

- Sensitization possible through skin contact.

- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)** Substance is not listed.

- **NTP (National Toxicology Program)** Substance is not listed.

- **OSHA-Ca (Occupational Safety & Health Administration)** Substance is not listed.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

- Water hazard class 1 (Self-assessment): slightly hazardous for water

- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

- Can not be disposed together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**

- **Recommendation:** Discard must be made according to official regulations.

- **Recommended cleansing agent:** Water, if necessary with cleaning agents.

## 14 Transport information

- **UN-Number**

- **DOT, ADR, ADN, IMDG, IATA** Not regulated

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- |  |                        |
|--|------------------------|
| <i>· UN proper shipping name</i>   |                        |
| <i>· DOT, ADR, ADN, IMDG, IATA</i>   | <i>Not regulated</i>   |
| <i>· Transport hazard class(es)</i>  |                        |
| <i>· DOT, ADR, ADN, IMDG, IATA</i>   |                        |
| <i>· Class</i>   | <i>Not regulated</i>   |
| <i>· Packing group</i>   |                        |
| <i>· DOT, ADR, IMDG, IATA</i>  | <i>Not regulated</i>   |
| <i>· Environmental hazards:</i>  |                        |
| <i>· Marine pollutant:</i>   | <i>No</i>              |
| <i>· Special precautions for user</i>  | <i>Not applicable.</i> |
| <i>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</i> |                        |
|  | <i>Not applicable.</i> |
| <i>· UN "Model Regulation":</i>  | <i>Not regulated</i>   |

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture*
- Sara*
- Section 355 (extremely hazardous substances): Substance is not listed.*
- Section 313 (Specific toxic chemical listings): Substance is not listed.*
- TSCA (Toxic Substances Control Act): Substance is not listed.*
- Proposition 65*
- Chemicals known to cause cancer: Substance is not listed.*
- Chemicals known to cause reproductive toxicity for females: Substance is not listed.*
- Chemicals known to cause reproductive toxicity for males: Substance is not listed.*
- Chemicals known to cause developmental toxicity: Substance is not listed.*
- Carcinogenic categories*
- EPA (Environmental Protection Agency) Substance is not listed.*
- TLV (Threshold Limit Value established by ACGIH) Substance is not listed.*
- NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.*
- GHS label elements*
- The substance is classified and labeled according to the Globally Harmonized System (GHS).*
- Hazard pictograms*



GHS08

- Signal word* **Danger**
- Hazard statements*
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.*
- May cause an allergic skin reaction.*
- Precautionary statements*
- [In case of inadequate ventilation] wear respiratory protection.*
- Avoid breathing dust/fume/gas/mist/vapors/spray*
- Wear protective gloves.*
- Contaminated work clothing must not be allowed out of the workplace.*
- Specific treatment (see on this label).*
- If experiencing respiratory symptoms: Call a POISON CENTER/doctor.*
- Wash contaminated clothing before reuse.*
- If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.*

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*If skin irritation or rash occurs: Get medical advice/attention.*

*IF ON SKIN: Wash with plenty of water.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Department issuing SDS:** Quality Control Dept.

**· Date of preparation / last revision** 08/04/2016 / -

**· Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*NIOSH: National Institute for Occupational Safety*

*OSHA: Occupational Safety & Health*

*TLV: Threshold Limit Value*

*PEL: Permissible Exposure Limit*

*REL: Recommended Exposure Limit*

*Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1*

*Skin Sens. 1: Sensitisation - Skin, Hazard Category 1*