



Issuing Date 15-Jun-2009

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Revision Number 3

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name Gentamycin Sulfate

Product Code(s) 0304

Recommended Use For Further Manufacturing Use Only
Not for Human or Animal Drug Use

Recommended Use Antibiotic for cell culture for the elimination of non-target bacteria by binding to the 30S subunit of bacterial ribosome.

Synonyms GARAMYCIN * GENOPTIC

Company
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2. HAZARDS IDENTIFICATION

GHS - Classification

Classification Skin Irritant 2 Eye Irritant 2 Respiratory Sensitizer 1 Skin Sensitizer 1 Toxic to Reproduction 2

Signal Word Danger



Hazard Statements H317 - May cause an allergic skin reaction H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H361 - Suspected of damaging fertility or the unborn child

Precautionary Statements P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P280 - Wear protective gloves/protective clothing/eye protection/face protection P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician P313 - Get medical advice/attention

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | EC No. | REACH Reg. No. | CAS-No | Weight % | Classification |
|----------------------------|-------------------|----------------|-----------|----------|----------------|
| Gentamicin, sulfate (salt) | EEC No. 215-778-9 | Not available | 1405-41-0 | 95-100 | - |

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes

Inhalation Move to fresh air. If breathing is difficult, give oxygen.

Ingestion Clean mouth with water and afterwards drink plenty of water

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable

Flash Point Not determined

Suitable Extinguishing Media Dry chemical, CO₂, water spray or alcohol-resistant foam.

Hazardous Combustion Products Carbon oxides, Emits toxic fumes.

Explosion Data

| | |
|---|---------------|
| Sensitivity to Mechanical Impact | Not sensitive |
| Sensitivity to Static Discharge | Not sensitive |

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with the skin and the eyes. Ensure adequate ventilation. Use personal protective equipment.

Methods for Containment Prevent further leakage or spillage if safe to do so

Methods for Cleaning Up Pick up and transfer to properly labeled containers

7. HANDLING AND STORAGE

| | |
|------------------------------|--|
| Handling | Handle in accordance with good industrial hygiene and safety practice. Hygroscopic. |
| Storage | Keep containers tightly closed in a dry, cool and well-ventilated place |
| Incompatible Products | Strong oxidizing agents. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|-----------|----------|------------|
| Gentamicin, sulfate (salt) 1405-41-0 | | | |

| | |
|-----------------------------|--|
| Engineering Measures | Showers Eyewash stations Ventilation systems |
|-----------------------------|--|

Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields. Avoid contact with eyes.

Skin and Body Protection

Wear protective gloves/clothing.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

| | |
|-------------------------|---|
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety practice |
|-------------------------|---|

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| Appearance | White to almost white |
| Odor | No information available |
| Odor Threshold | No information available |
| Decomposition Temperature °C | No information available |
| Freezing Point | No information available |
| Initial Boiling Point | No information available |
| Physical State | Powder |
| pH | As a 4% solution 3.5-4.5 |
| Flash Point | Not determined |
| Autoignition Temperature | No data available |
| Boiling Point/Range | No data available |
| Melting Point/Range | No data available |
| Flammability Limits in Air | Upper No data available Lower No data available |
| Explosive Properties | No information available |
| Oxidizing Properties | No information available |
| Evaporation Rate | No data available |
| MMHG @ 37.8 C | No data available |
| Vapor Density | No data available |
| Specific Gravity | No data available |
| Solubility | No information available |
| Partition Coefficient (n-octanol/water) | No data available |
| Viscosity | No information available |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Stability | Stable under recommended storage conditions |
| Incompatible Products | Strong oxidizing agents. |
| Conditions to Avoid | Hygroscopic. |
| Hazardous Decomposition Products | Carbon oxides. Nitrogen oxides (NOx). Toxic fumes. |
| Hazardous Polymerization | Hazardous polymerization does not occur |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| | |
|----------------------------|--|
| Product Information | Causes skin, eye and respiratory tract irritation. Sensitizer. |
|----------------------------|--|

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|----------------------------|----------------|-------------|-----------------|
| Gentamicin, sulfate (salt) | 5 g/kg (Rat) | | |

Chronic Toxicity

| | |
|-------------------------|---|
| Chronic Toxicity | No known effect based on information supplied |
|-------------------------|---|

| | |
|----------------------|---|
| Sensitization | May cause sensitization of susceptible persons. |
|----------------------|---|

| | |
|-------------------------------|--|
| Developmental Toxicity | Possible risk of harm to the unborn child. |
|-------------------------------|--|

| | |
|-----------------------------|------------------------|
| Target Organ Effects | Kidneys, Ears, Nerves. |
|-----------------------------|------------------------|

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated

13. DISPOSAL CONSIDERATIONS

| | |
|------------------------------|---|
| Waste Disposal Method | Dispose of material in accordance with all federal, state, and local regulations. |
|------------------------------|---|

| | |
|-------------------------------|--|
| Contaminated Packaging | Dispose of in accordance with all federal, state and local regulations |
|-------------------------------|--|

14. TRANSPORT INFORMATION

IATA Not regulated

DOT Not regulated

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

| Chemical Name | Dangerous Substances | Organic Solvents | Harmful Substances Whose Names Are to be Indicated on the Label | Pollution Release and Transfer Registry (Class II): | Pollution Release and Transfer Registry (Class I): | Poison and Deleterious Substances Control Law: |
|----------------------------|----------------------|------------------|---|---|--|--|
| Gentamicin, sulfate (salt) | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

| Component | ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying | ISHA - Harmful Substances Requiring Permission | Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals | Toxic Release Inventory (TRI) - Group I | Toxic Release Inventory (TRI) - Group II |
|--|---|--|--|---|--|
| Gentamicin, sulfate (salt) 1405-41-0 (95-100) | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

International Inventories

TSCA Does not Comply
 EINECS/ELINCS Complies
 ENCS Complies
 IECSC Complies
 KECL Complies
 PICCS Complies
 AICS Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories
Acute Health Hazard

Yes

| | |
|-----------------------------------|----|
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico - Grade No information available.

Canada

WHMIS Hazard Class

D2A Very toxic materials

D2B Toxic materials



16. OTHER INFORMATION

Issuing Date 15-Jun-2009

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Revision Note

No information available.

Recommended Restrictions

No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS