



Material Safety Data Sheet

Gentamicin Solution, 50 mg/ml

1. IDENTIFICATION OF THE PREPARATION/SUBSTANCE AND OF THE COMPANY

Preparation Name: Gentamicin Solution, 50 mg/ml

Catalogue number of the product: CC527-0010

Use of the preparation:

For laboratory use.

Company identification:

GeneDireX, Inc.

Website: <http://www.genedirex.com>

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Component	CAS-No	EINECS-No	Weight %
Gentamicin, sulfate	1405-41-0	215-778-9	3-7

We recommend handling all chemicals with caution.

3. HAZARDS IDENTIFICATION

GHS - Classification

Signal Word

DANGER



Health hazards

Respiratory sensitization Category 1

Skin sensitization Category 1

Physical hazards Not Hazardous

Hazard Statements

H317 - May cause an allergic skin reaction

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

Precautionary Statements

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P285 - In case of inadequate ventilation wear respiratory protection

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

P363 - Wash contaminated clothing before reuse

Principle Routes of Exposure

Potential Health Effects

Eyes May cause eye irritation with susceptible persons.

Skin May cause skin irritation in susceptible persons. May cause sensitization by skin contact.

Inhalation May cause irritation of respiratory tract. May cause sensitization by inhalation.

Ingestion May be harmful if swallowed.



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Specific effects	
Carcinogenic effects	None
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	May cause sensitization by inhalation and skin contact.
Target Organ Effects	None under normal use conditions.
HMIS	
Health	3
Flammability	0
Reactivity	0

4. FIRST-AID MEASURES

Ingestion	Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing and wash it before reuse. Immediate medical attention is required.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical.
Special protective equipment for firefighters	Standard procedure for chemical fires.
Specific hazards arising from the chemical	Not known

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection equipment.
Methods for cleaning up	Soak up with inert absorbent material.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for more information.

7. HANDLING AND STORAGE

Handling	Always wear recommended Personal Protective Equipment. No special handling advices are necessary.
Storage	Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits				
Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Gentamicin, sulfate	None	None	None	None
Engineering measures	Ensure adequate ventilation, especially in confined areas.			
Personal Protective Equipment				
Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.				



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Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection Impervious gloves.	
Eye protection	Wear safety glasses with side shields (or goggles).
Skin and Body Protection	Lightweight protective clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	Prevent product from entering drains. Do not allow material to contaminate ground water system.

9. PHYSICAL AND CHEMICAL PROPERTI

General information

Form	Liquid
Appearance	No information available
Odor	No information available
Boiling point / boiling range	°C No data available °F No data available
Melting point / melting range	°C No data available °F No data available
flash point	°C No data available °F No data available
Autoignition Temperature	°C No data available °F No data available
Oxidizing properties	No information available
Water solubility	soluble

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Materials to avoid	Incompatible with oxidizing agents.
Hazardous decomposition products	Carbon oxides, Nitrogen Oxides.
Polymerization	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity			
Chemical	Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit) LC50 (inhalation,rat/mouse)
Gentamicin, sulfate	> 5 g/kg (Rat)	No data available	No data available
Principle Routes of Exposure			
Potential Health Effects			
eyes	May cause eye irritation with susceptible persons.		
Skin	May cause skin irritation in susceptible persons May cause sensitization by skin contact		
Inhalation	May cause irritation of respiratory tract May cause sensitization by inhalation.		
Ingestion	May be harmful if swallowed.		
Carcinogenic effects	None		
Mutagenic effects	None		
Reproductive toxicity	None.		
Sensitization	May cause sensitization by inhalation and skin contact.		
Target Organ Effects	None under normal use conditions		

12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available
Acute aquatic toxicity	Not classified for acute
Chronic aquatic toxicity	Not classified chronic
Mobility	No information available.
Biodegradation	No information available.
Bioaccumulation	No information available.



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13. DISPOSAL CONSIDERATIONS

Dispose of contents/containers in accordance with local regulations.

14. TRANSPORT INFORMATION

IATA

Proper Shipping Name	No dangerous good in sense of these transport regulations
Hazard Class	None
Subsidiary class	None
Packing group	None
UN-No	None

15. REGULATORY INFORMATION

Component US TSCA

Gentamicin, sulfate 1405-41-0 (3-7) -

US Federal Regulations

SARA 313

This product is not regulated by SARA.

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

This product does not contain HAPs.

US State Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
	- RTK	- RTK	- RTK	- RTK	- RTK

Gentamicin, sulfate -

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

D2A - Very toxic materials

D2B - Toxic materials



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER 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. GeneDireX, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.